

LEGEND

- PROPOSED SIGN MOUNTED ON POST(S)
- PROPOSED SIGN MOUNTED ON POLE
- (X-XX) DENOTES SIGN NUMBER
- PROPOSED LIGHT POLE
- PROPOSED TRAFFIC SIGNAL
- * MOUNTING HEIGHT OF 2 FT.
- PAVEMENT MARKING, GREEN EPOXY

NOTE:
PROPOSED LINEWORK SHOWN AS SCREENED
FOR CLARITY.

PAVEMENT MARKING LEGEND

- MARKING LINE EPOXY 4-INCH, WHITE
- MARKING LINE EPOXY 4-INCH, YELLOW
- MARKING LINE EPOXY 4-INCH, DOUBLE YELLOW
- MARKING LINE EPOXY 4-INCH, WHITE SKIP, 3' SEG., 9' GAP
- MARKING LINE EPOXY 4-INCH, WHITE SKIP, 12 1/2' SEG., 37 1/2' GAP
- MARKING LINE EPOXY 6-INCH, WHITE
- MARKING LINE EPOXY 8-INCH, WHITE
- MARKING LINE EPOXY 8-INCH, WHITE SKIP, 3' SEG., 9' GAP
- MARKING CROSSWALK EPOXY TRANSVERSE LINE 12-INCH
- MARKING STOP LINE EPOXY 18-INCH
- MARKING CURB EPOXY, YELLOW
- MARKING ISLAND NOSE EPOXY, YELLOW
- MARKING ARROW EPOXY, TYPE 2, WHITE
- MARKING ARROW EPOXY, TYPE 3, WHITE
- MARKING WORD EPOXY
- MARKING ARROW EPOXY, BIKE LANE
- MARKING SYMBOL EPOXY, BIKE LANE
- MARKING DIAGONAL EPOXY 12-INCH, YELLOW
- MARKING CHEVRON EPOXY 8-INCH, WHITE

2

SPOKE DRIVE

WB CTH PD (MCKEE ROAD)

EB CTH PD (MCKEE ROAD)

BADGER STATE TRAIL

NORTH RETURN PATH

SOUTH RETURN PATH

STOP

STOP

SPEED LIMIT 40

SPOKE DRIVE NEXT SIGNAL

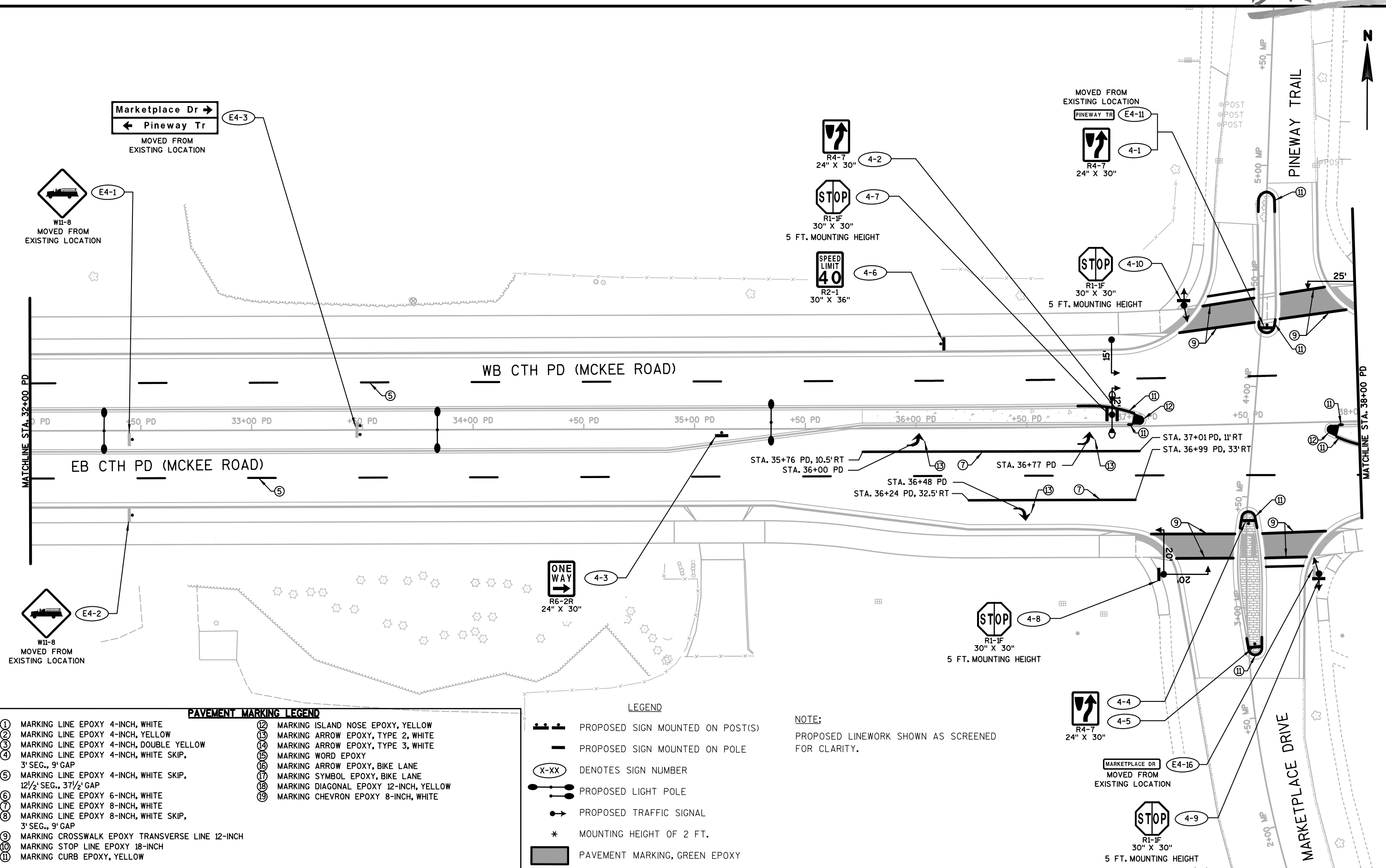
PAVEMENT MARKING LEGEND

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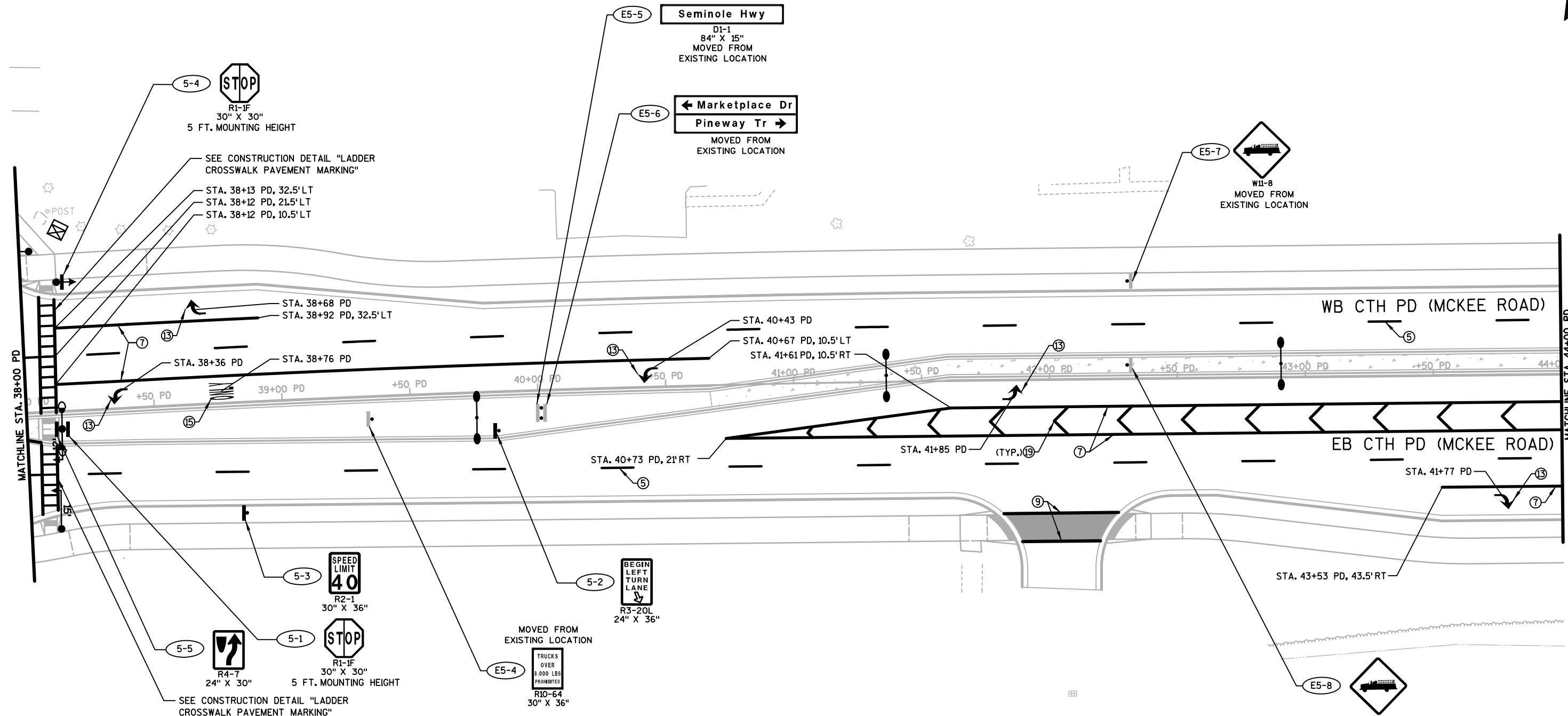
2



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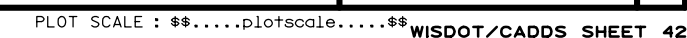
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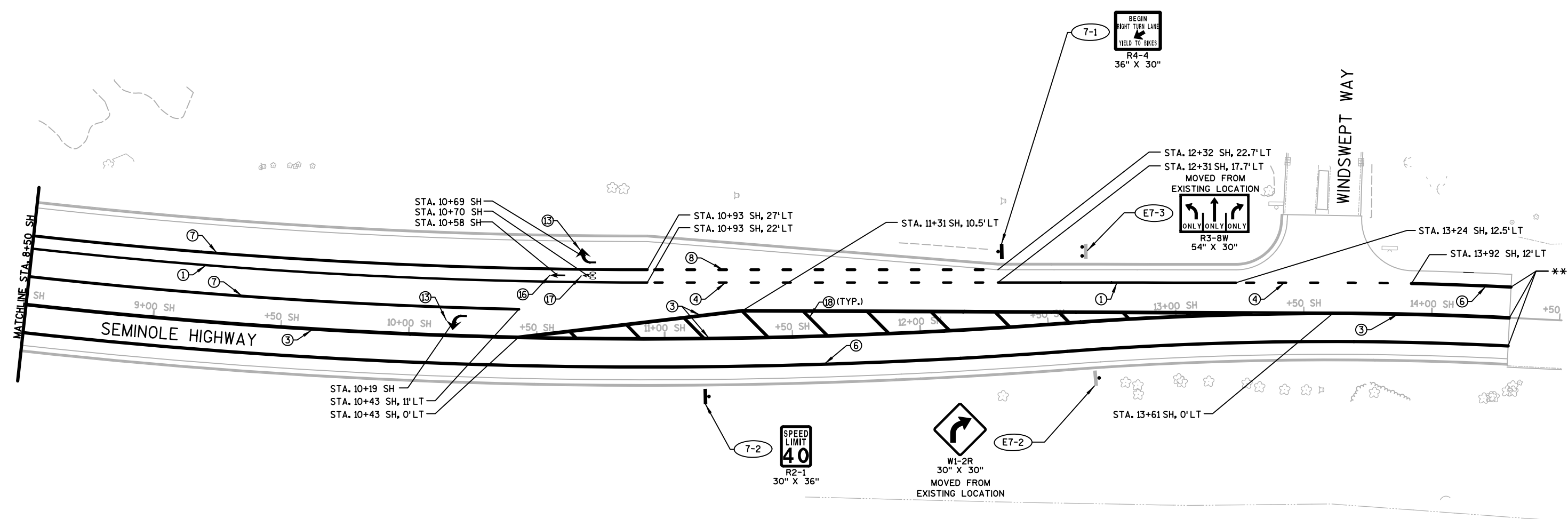
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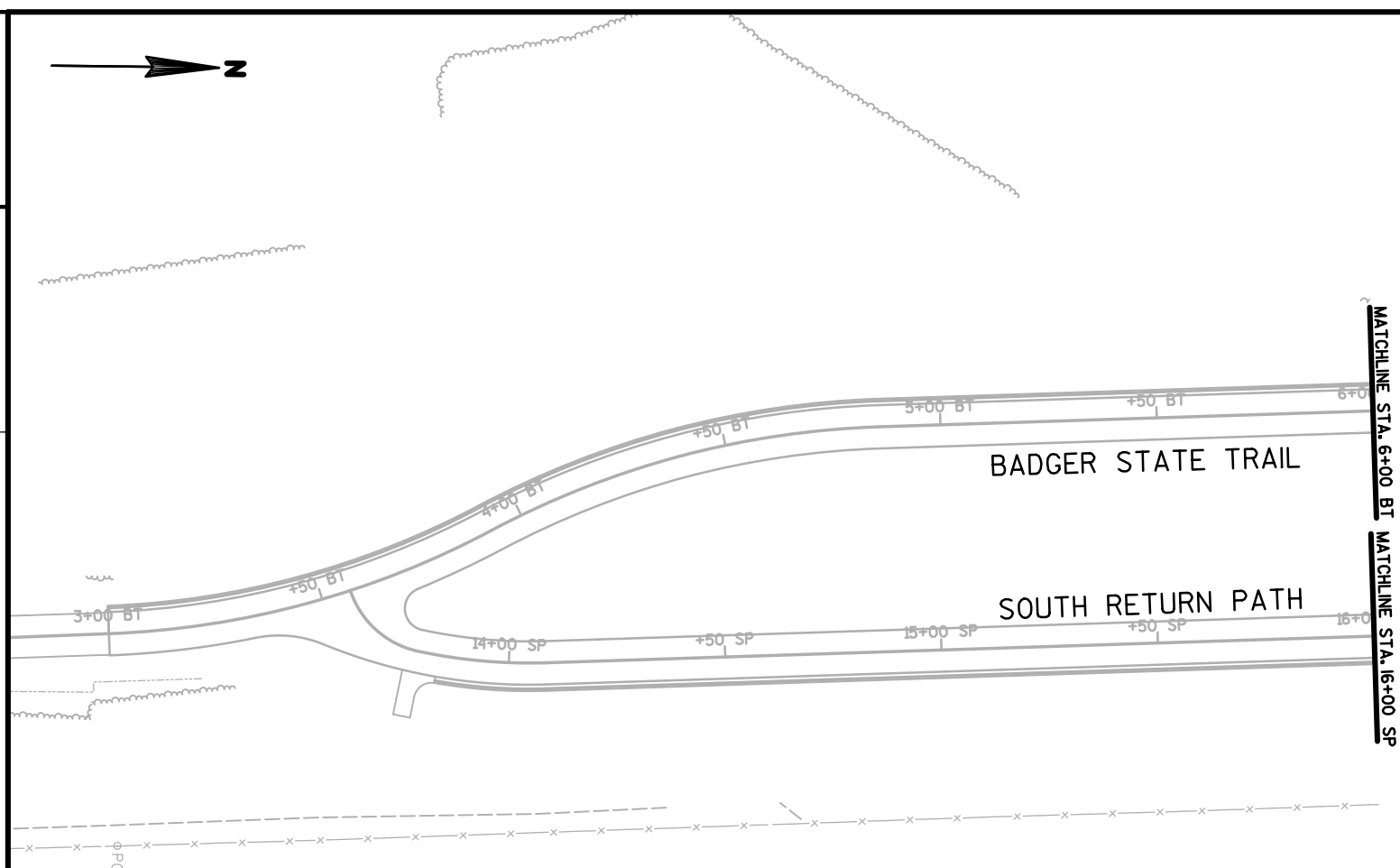
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** MATCH EXISTING PAVEMENT MARKING LOCATION



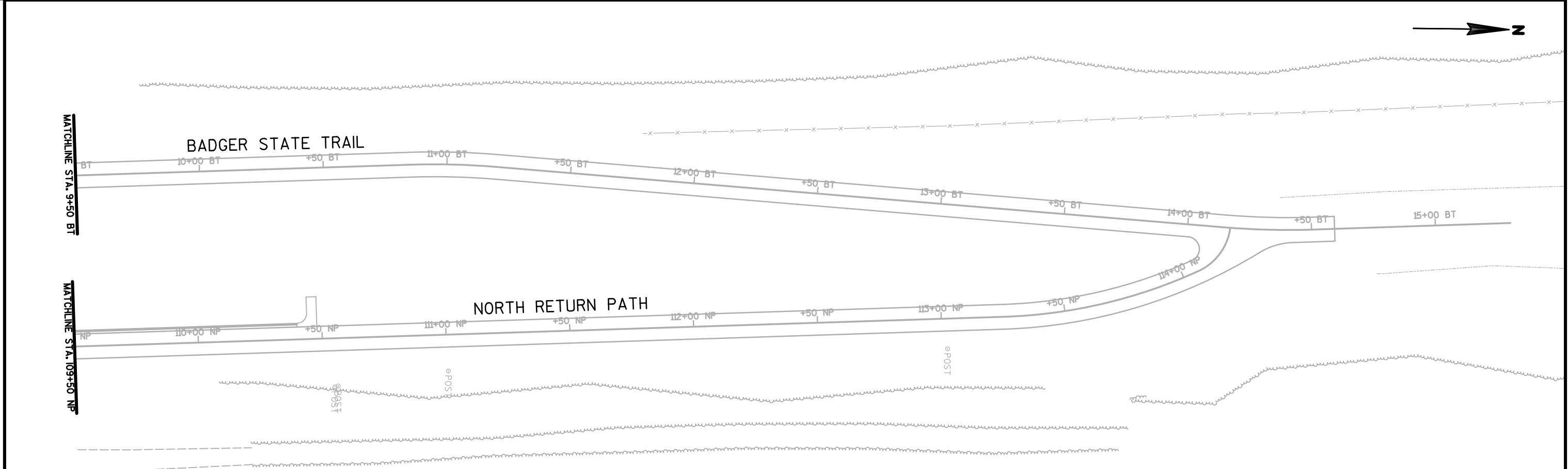
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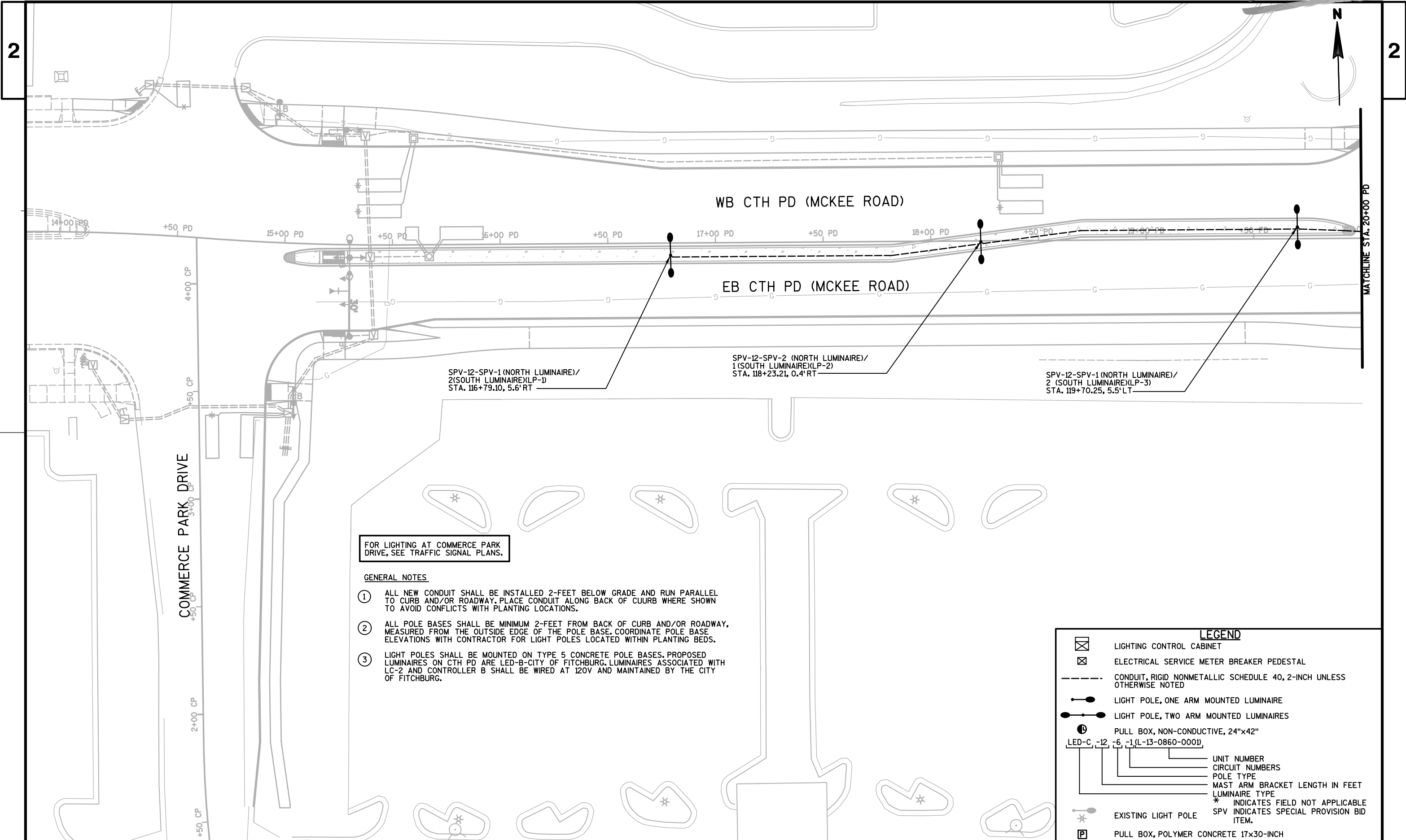
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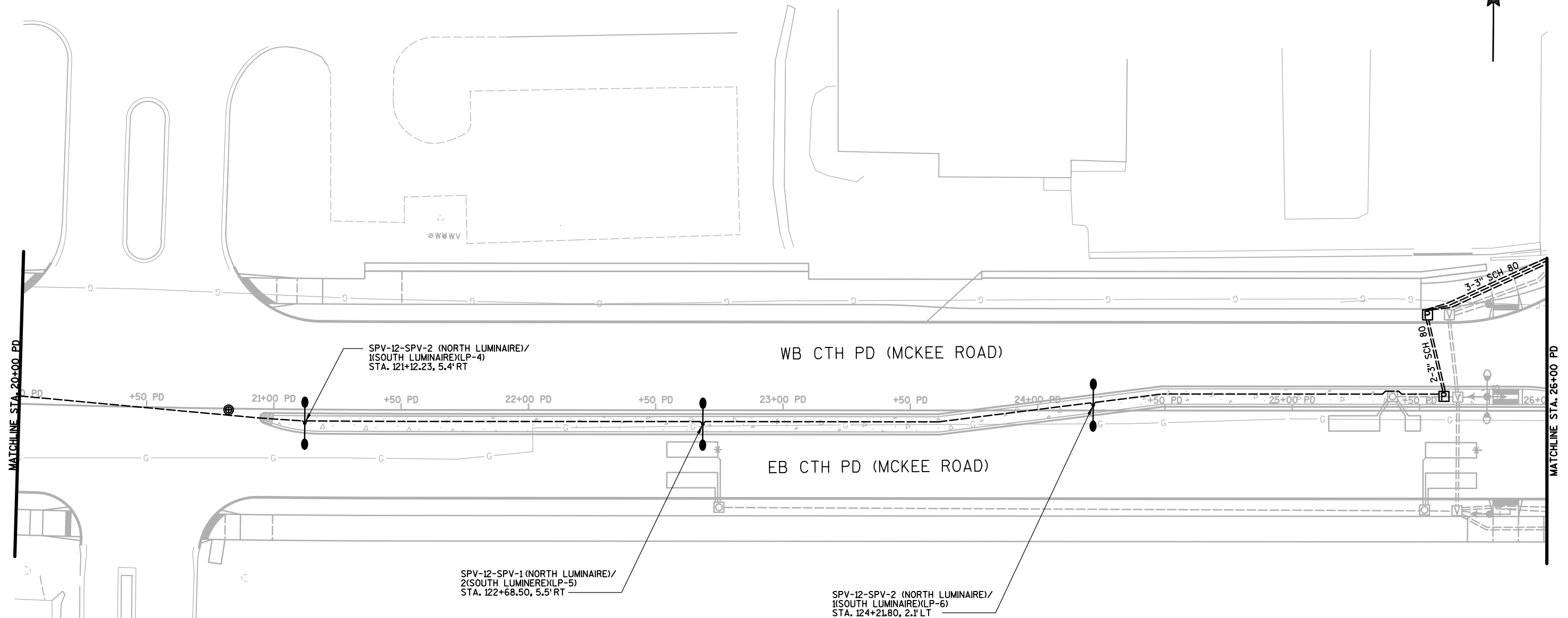
FOR LIGHTING AT COMMERCE PARK DRIVE, SEE TRAFFIC SIGNAL PLANS.

GENERAL NOTES

- ① ALL NEW CONDUIT SHALL BE INSTALLED 2-FEET BELOW GRADE AND RUN PARALLEL TO CURB AND/OR ROADWAY. PLACE CONDUIT ALONG BACK OF CURB WHERE SHOWN TO AVOID CONFLICTS WITH PLANTING LOCATIONS.
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- ③ LIGHT POLES SHALL BE MOUNTED ON TYPE 5 CONCRETE POLE BASES. PROPOSED LUMINAIRES ON CTH PD ARE LED-B-CITY OF FITCHBURG. LUMINAIRES ASSOCIATED WITH LC-2 AND CONTROLLER B SHALL BE WIRED AT 120V AND MAINTAINED BY THE CITY OF FITCHBURG.

LEGEND

- LIGHTING CONTROL CABINET
- ELECTRICAL SERVICE METER BREAKER PEDESTAL
- CONDUIT, RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED
- LIGHT POLE, ONE ARM MOUNTED LUMINAIRE
- LIGHT POLE, TWO ARM MOUNTED LUMINAIRES
- PULL BOX, NON-CONDUCTIVE, 24"x42"
- LED-C, -12, -1, (L-13-0860-0001)
- UNIT NUMBER
CIRCUIT NUMBERS
POLE TYPE
MAST ARM BRACKET LENGTH IN FEET
LUMINAIRE TYPE
- EXISTING LIGHT POLE
- PULL BOX, POLYMER CONCRETE 17x30-INCH
- * INDICATES FIELD NOT APPLICABLE
- SPV INDICATES SPECIAL PROVISION BID ITEM.

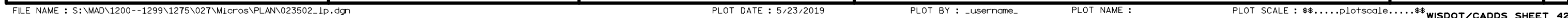


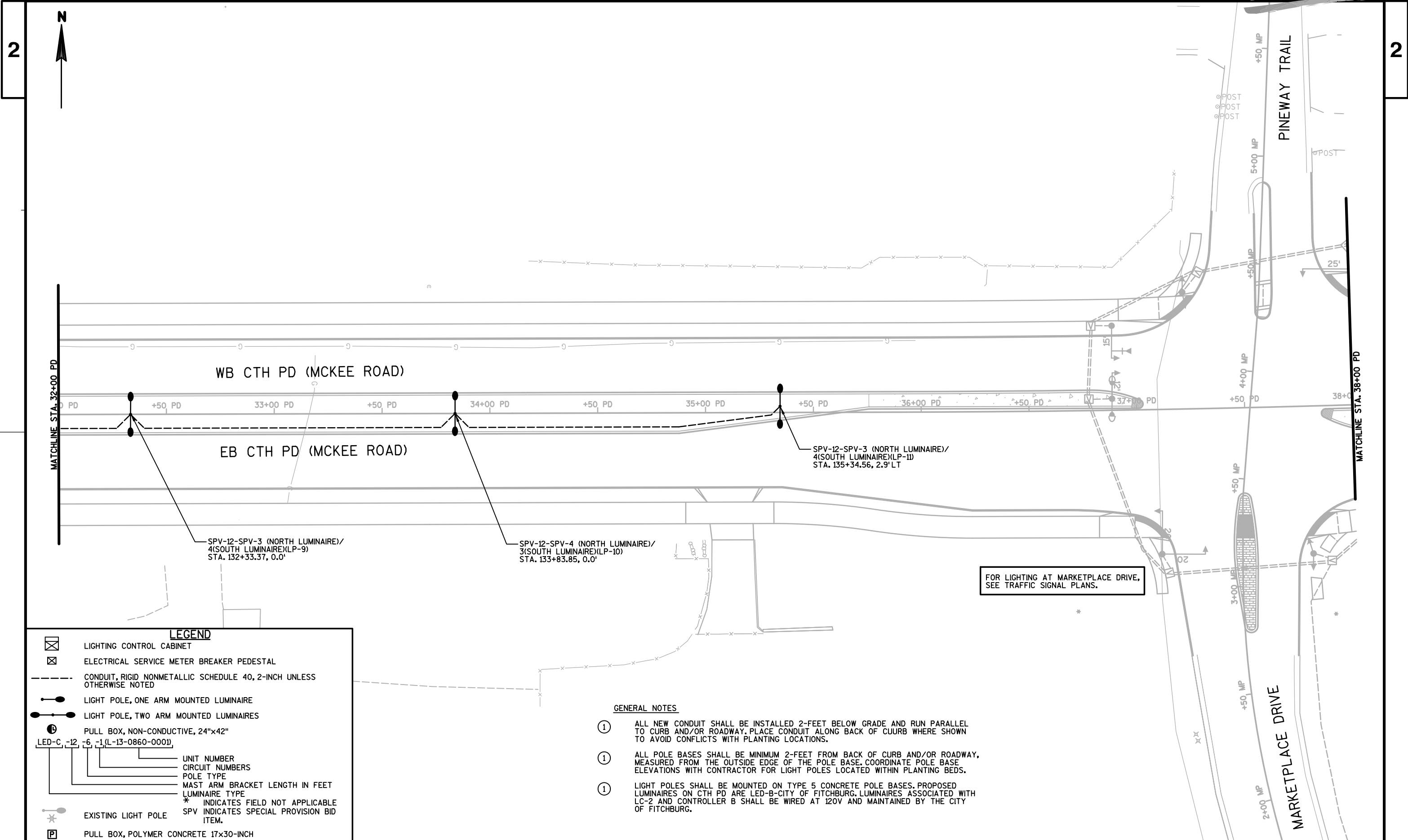
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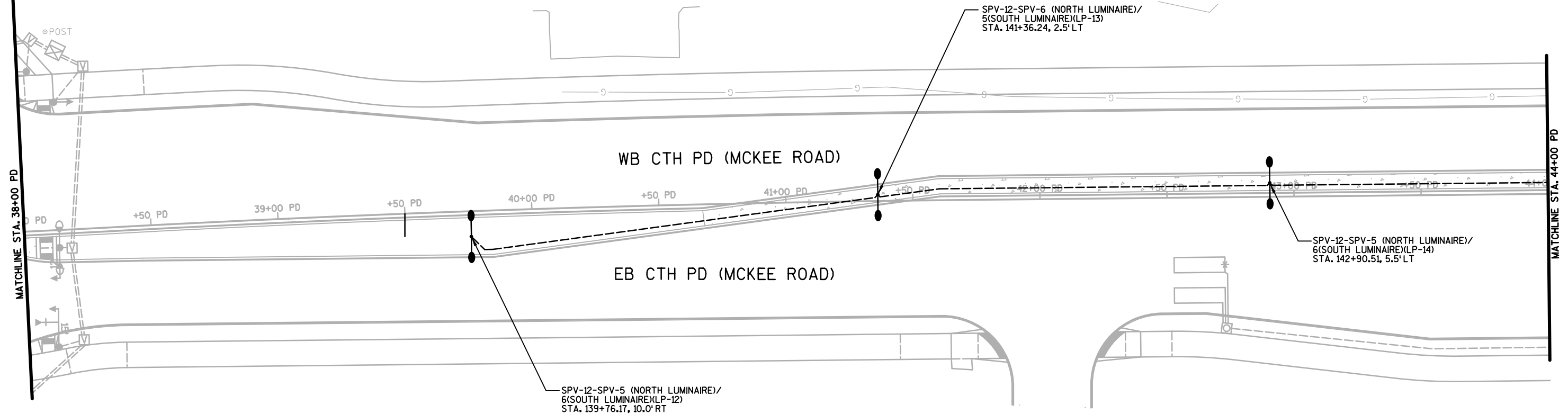




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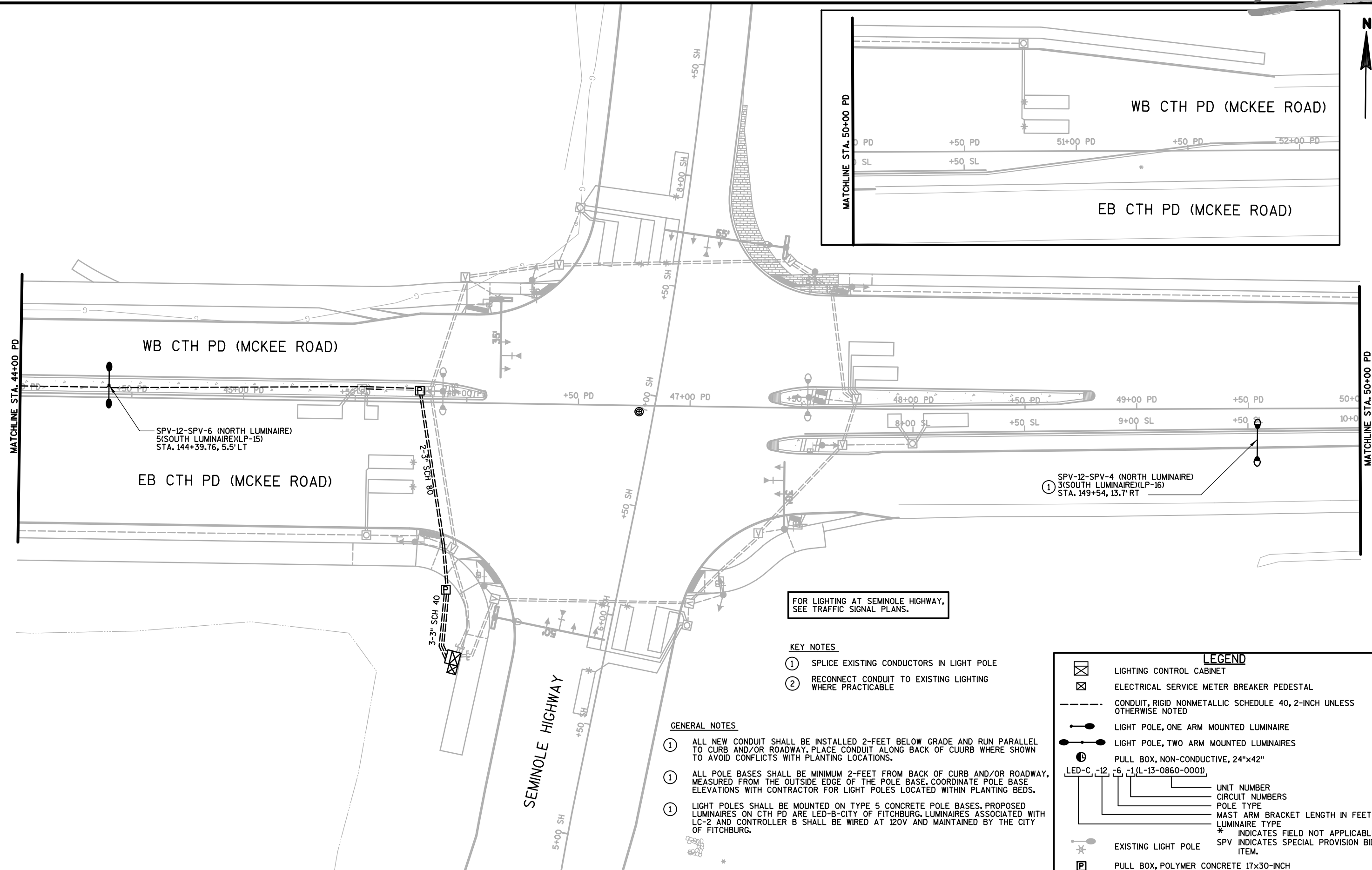
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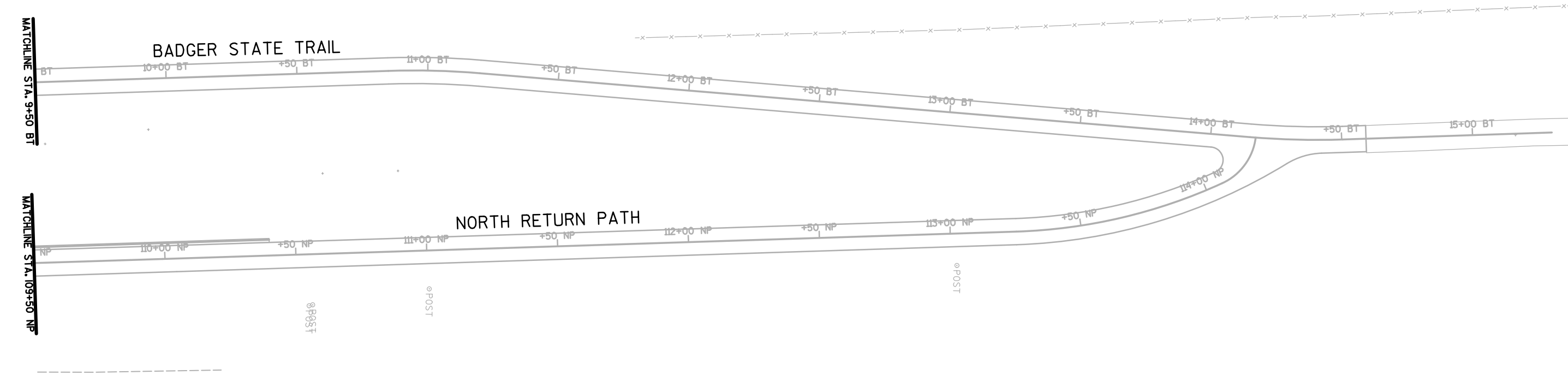
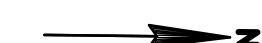
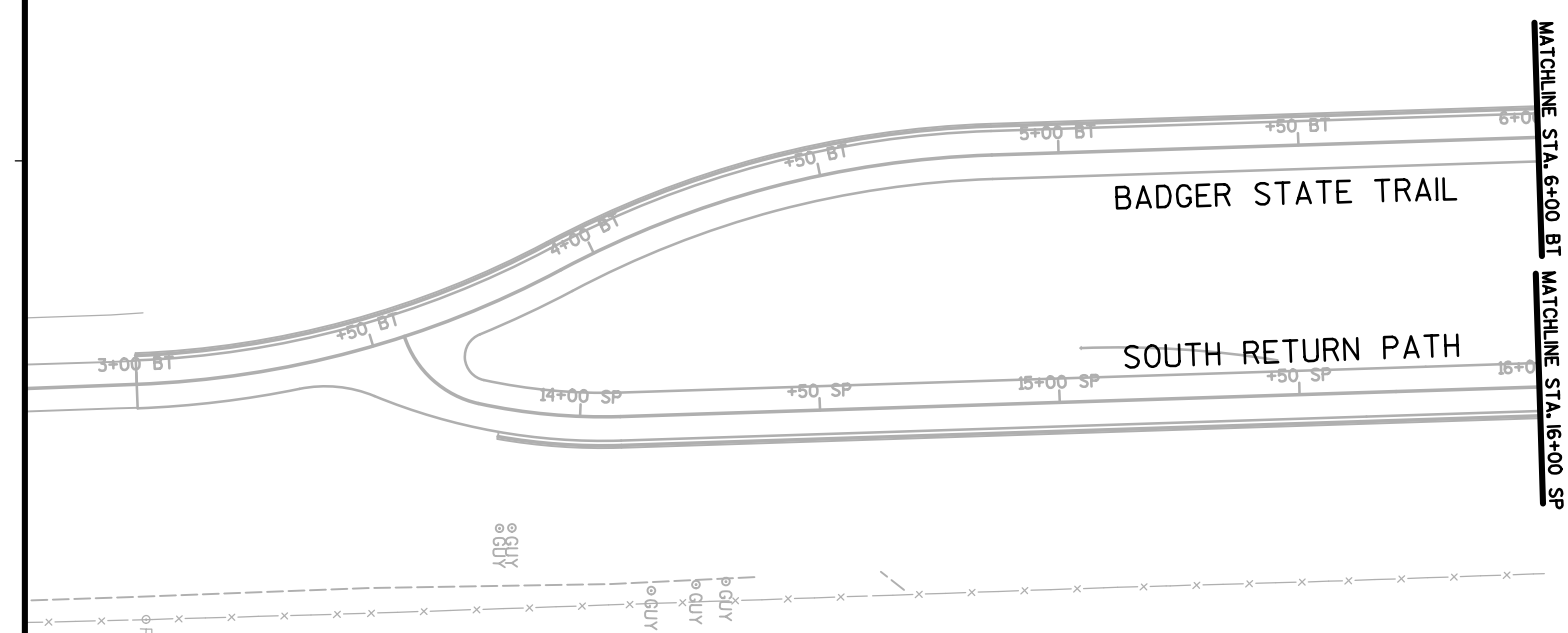
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FOR LIGHTING AT MARKETPLACE DRIVE,
SEE TRAFFIC SIGNAL PLANS.

GENERAL NOTES

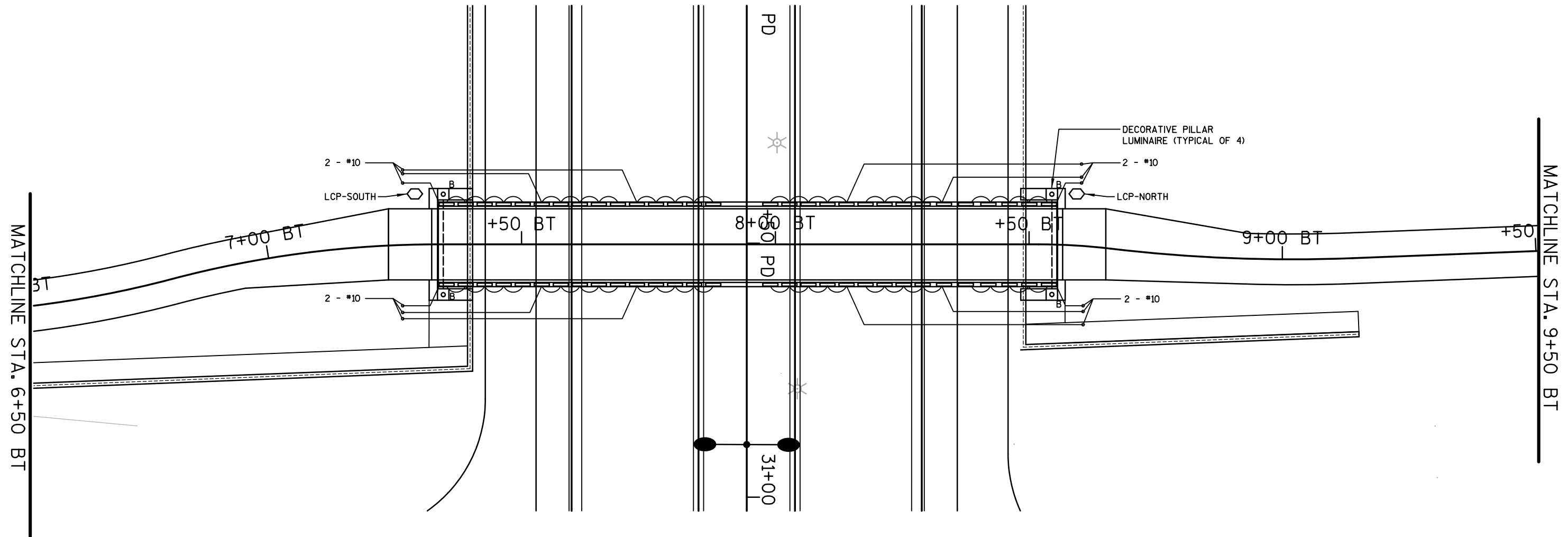
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2

2



LEGEND

- CONDUIT, RIGID NONMETALLIC SCHEDULE 40, 2-INCH UNLESS OTHERWISE NOTED
- [J] B-13-866 LIGHTING (JUNCTION BOX)
- [A] B-13-866 LIGHTING (FIXTURE TYPE A, LED HANDRAIL LUMINAIRE)
- [B] LIGHTING (FIXTURE TYPE B, DECORATIVE PILLAR LUMINAIRE)
- [A] PEDESTRIAN BOLLARD LUMINAIRE
- [C] B-13-866 LIGHTING (LIGHTING CONTROL PANEL)
- [PB] PULL BOX, POLYMER CONCRETE, 24" X 36"
- ▲ QUANTITY POINT

KEY NOTES

1. INSTALL FIXTURE TYPE A IN RUNS OF 5 AS SHOWN. PROVIDE WIRE SIZE AS SHOWN.
2. SEE DECORATIVE PILLAR LUMINAIRE SHOP DRAWING AND ORIENT AS SHOWN IN THE LAYOUT DETAIL.
3. MOUNT CONDUIT UNDER BRIDGE DECK.
4. INSTALL ALL WIRING THROUGH HANDRAIL. SEE LED HANDRAIL MOUNTING DETAIL.
5. SEE HANDRAIL MOUNTING DETAIL.
6. WIRE SHALL BE ROUTED THROUGH VERTICAL TRUSS MEMBERS.

PROJECT NO: 5849-02-02

HWY: CTH PD

COUNTY: DANE

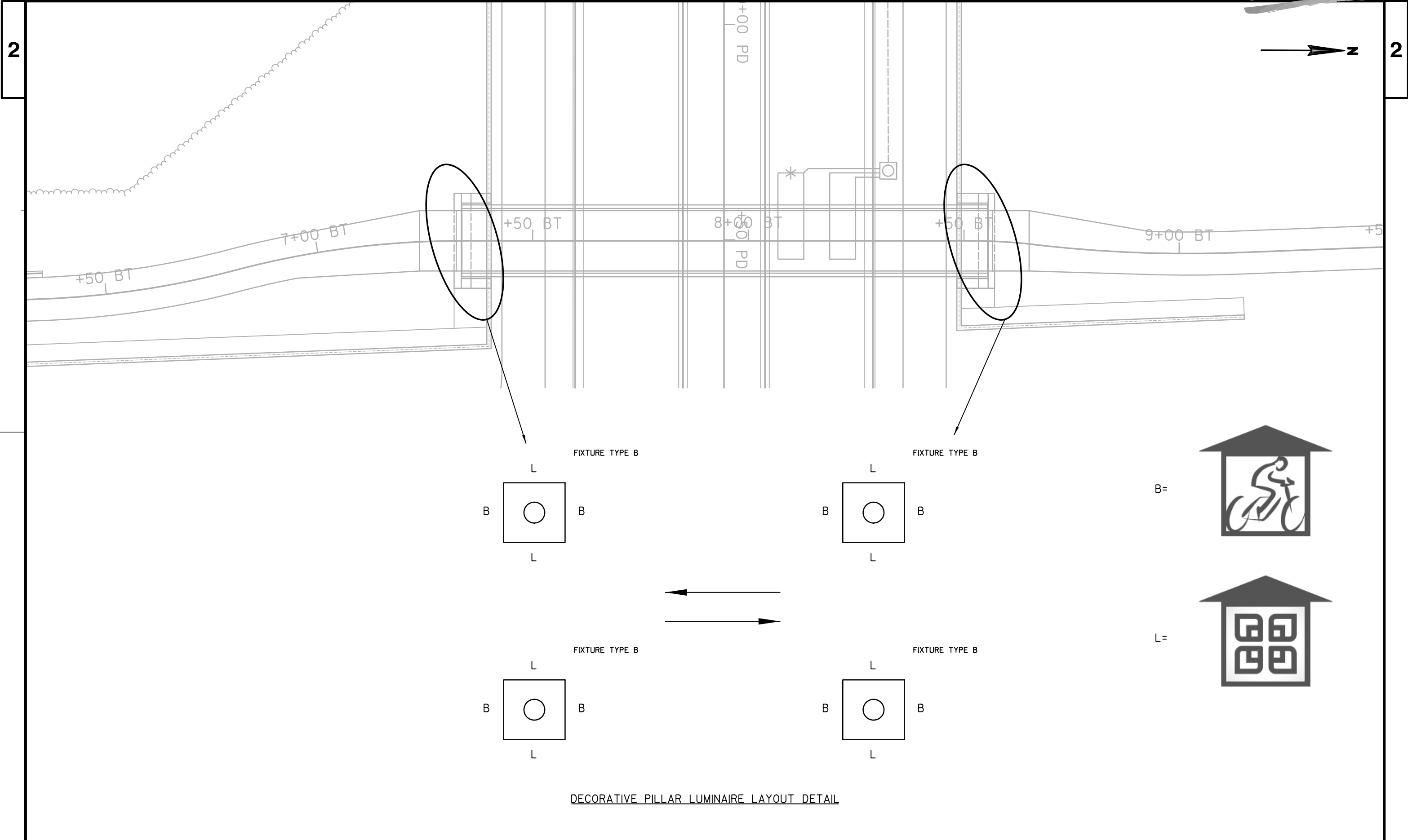
LIGHTING

SHEET

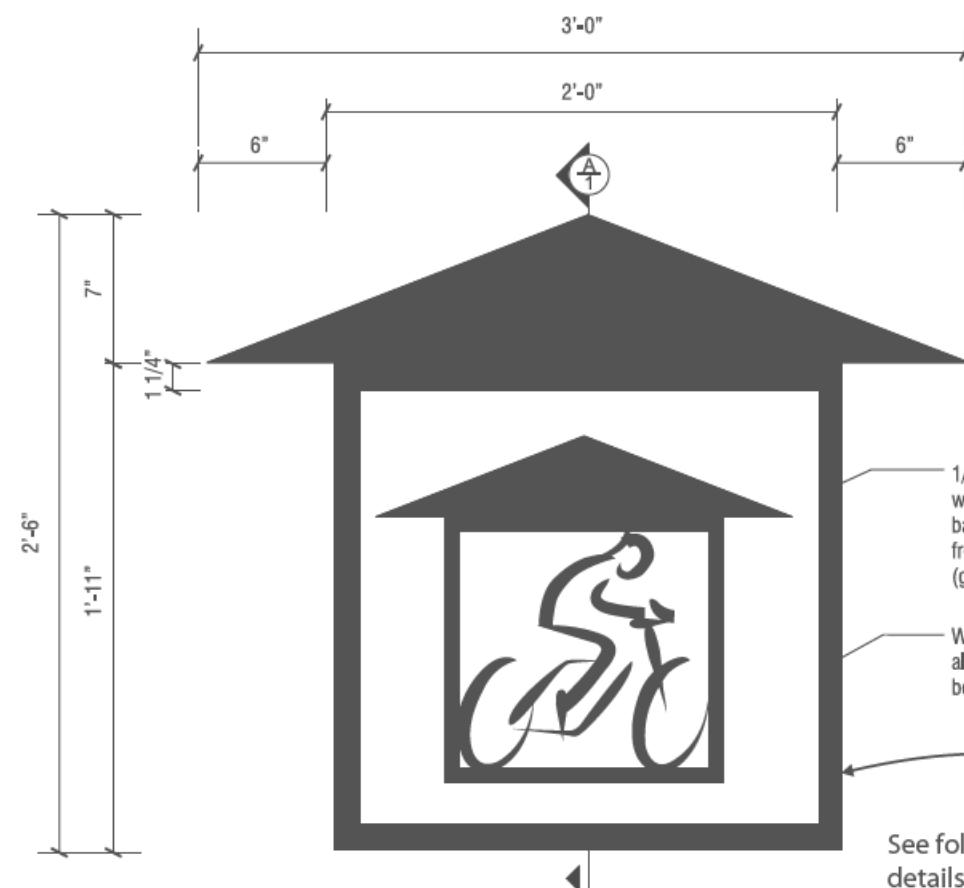
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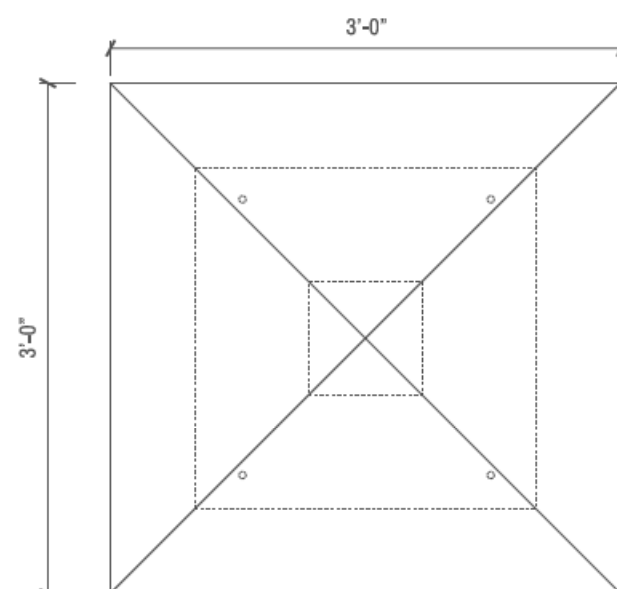
DRAFT



DECORATIVE PILLAR LUMINAIRE LAYOUT DETAIL



Front View
Scale: 1 1/2" = 1'-0"



Plan View
Scale: 1" = 1'-0"

Lantern Luminaire

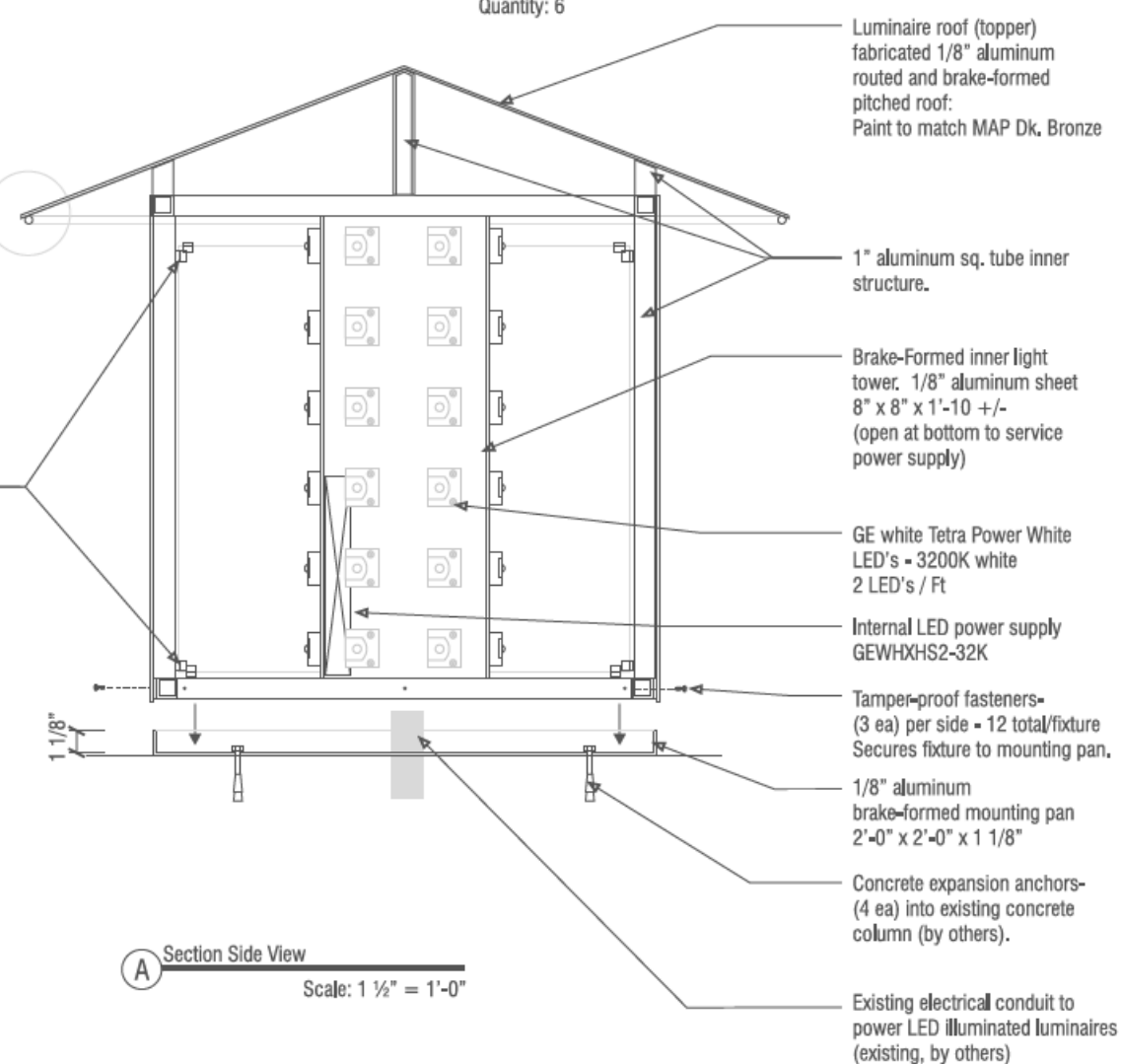
Quantity: 6

Detail View at lantern corner
See Detail: 1

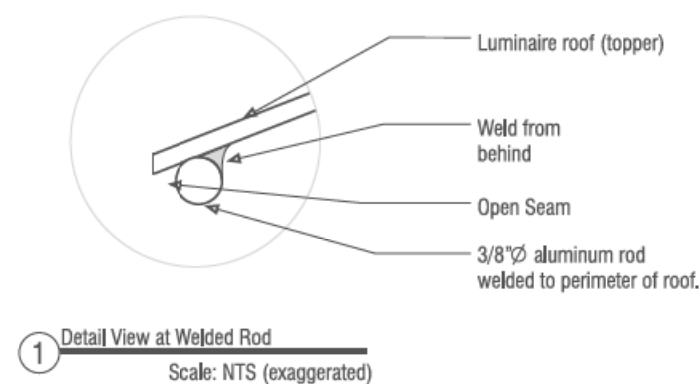
1/8" aluminum panel
w/ routed graphic
back with 3/16" thick white lexan-
frosted 2nd surface.
(graphic occurs on all 4 sides)

White lexan held in place with
aluminum tabs at corners, top
bottom and sides (8ea side)

See following sheet for graphic
details and placement



A Section Side View
Scale: 1 1/2" = 1'-0"



1 Detail View at Welded Rod
Scale: NTS (exaggerated)

Fixture Details:

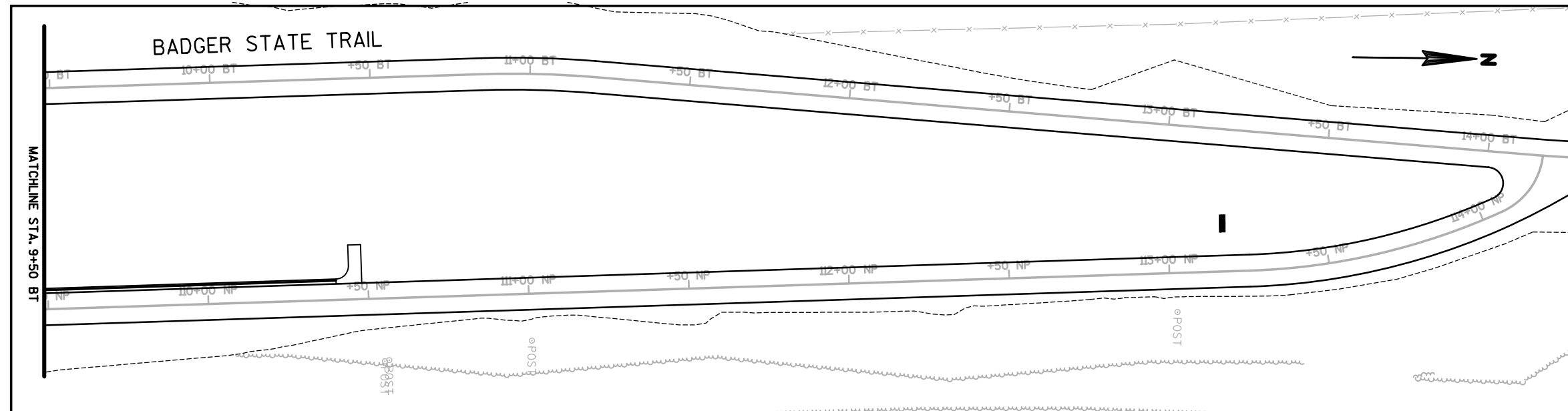
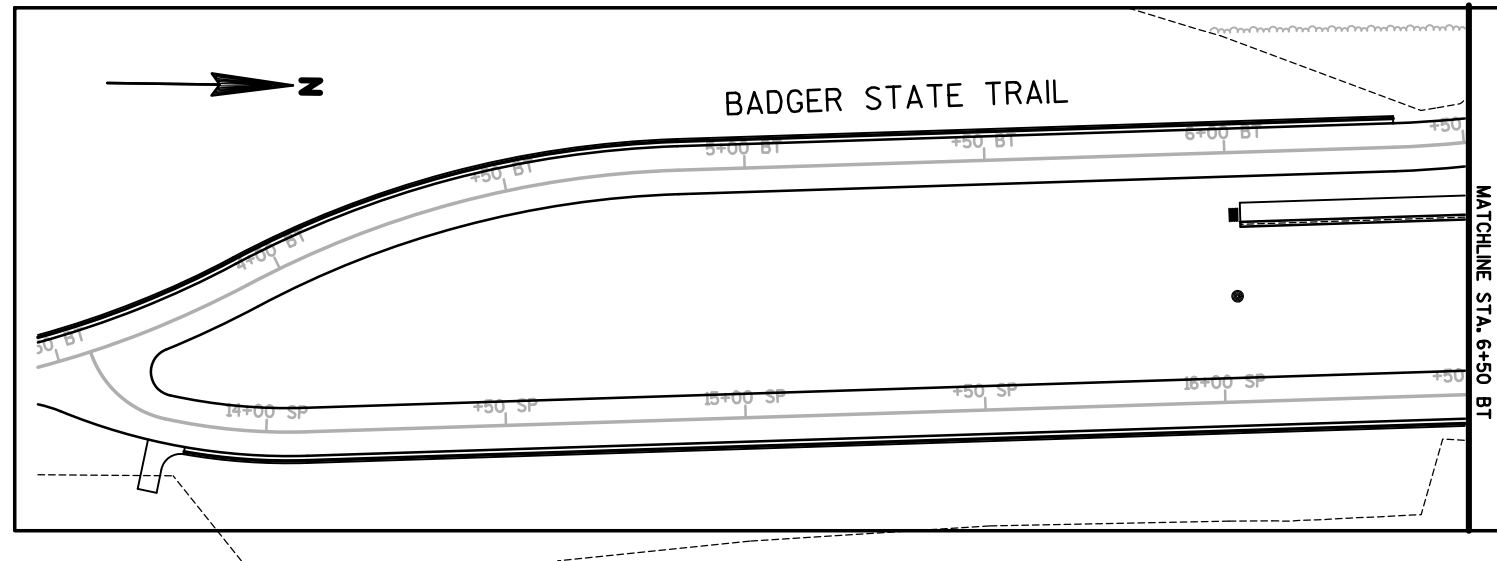
Power Requirement: 120V
Lamping: GE - Tetra White LED's (24 ft) 3200K
LED Driver(s): (1 ea) GEWHXS2-32K (120 or 277 volt)
Total Wattage: 48 total watts

Metal: Aluminum Construction
Finish: MAP Dk. Bronze to match RAL8019
Diffuser / Lens: 3/16" thick White Lexan
Diffuser / Lens Finish: 2nd surface frosted

Fixture Weight: Approx: 40 lbs

2

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- [P] B-13-866 LIGHTING (LIGHTING CONTROL PANEL)
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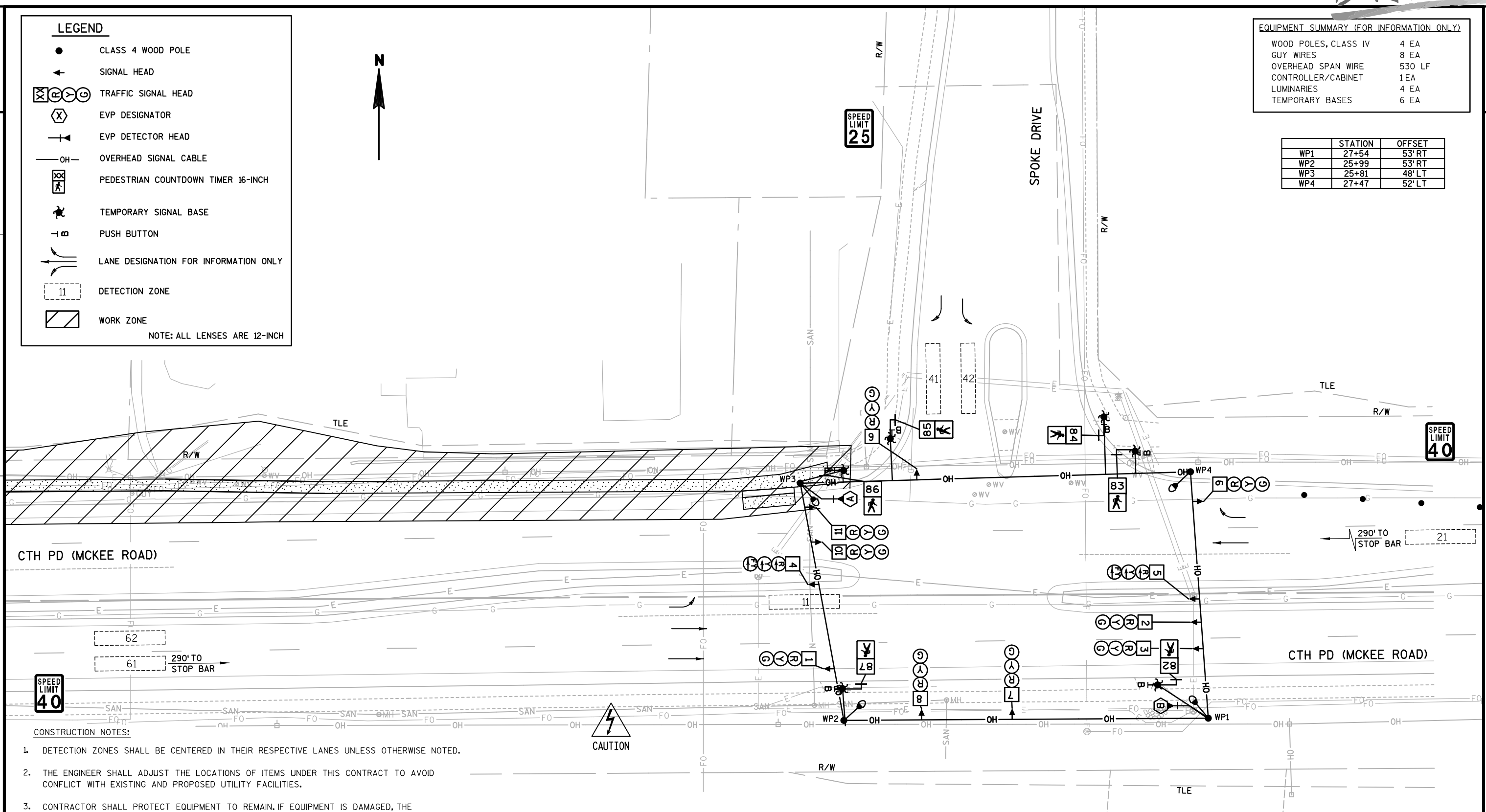
- CLASS 4 WOOD POLE
- ← SIGNAL HEAD
- ⊗ ⊙ ⊕ ⊖ TRAFFIC SIGNAL HEAD
- ⊗ EVP DESIGNATOR
- ⊕ EVP DETECTOR HEAD
- OH — OVERHEAD SIGNAL CABLE
- ⊗ PEDESTRIAN COUNTDOWN TIMER 16-INCH
- ⊕ TEMPORARY SIGNAL BASE
- ⊕ PUSH BUTTON
- ↔ LANE DESIGNATION FOR INFORMATION ONLY
- 11 DETECTION ZONE
- ▨ WORK ZONE

NOTE: ALL LENSES ARE 12-INCH

EQUIPMENT SUMMARY (FOR INFORMATION ONLY)

WOOD POLES, CLASS IV	4 EA
GUY WIRES	8 EA
OVERHEAD SPAN WIRE	530 LF
CONTROLLER/CABINET	1 EA
LUMINARIES	4 EA
TEMPORARY BASES	6 EA

	STATION	OFFSET
WP1	27+54	53' RT
WP2	25+99	53' RT
WP3	25+81	48' LT
WP4	27+47	52' LT



CONSTRUCTION NOTES:

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TRAFFIC CONTROL SIGNAL
CTH PD AND SPOKE DRIVE
CITY OF FITCHBURG
DANE COUNTY

SIGNAL NO. TEMP

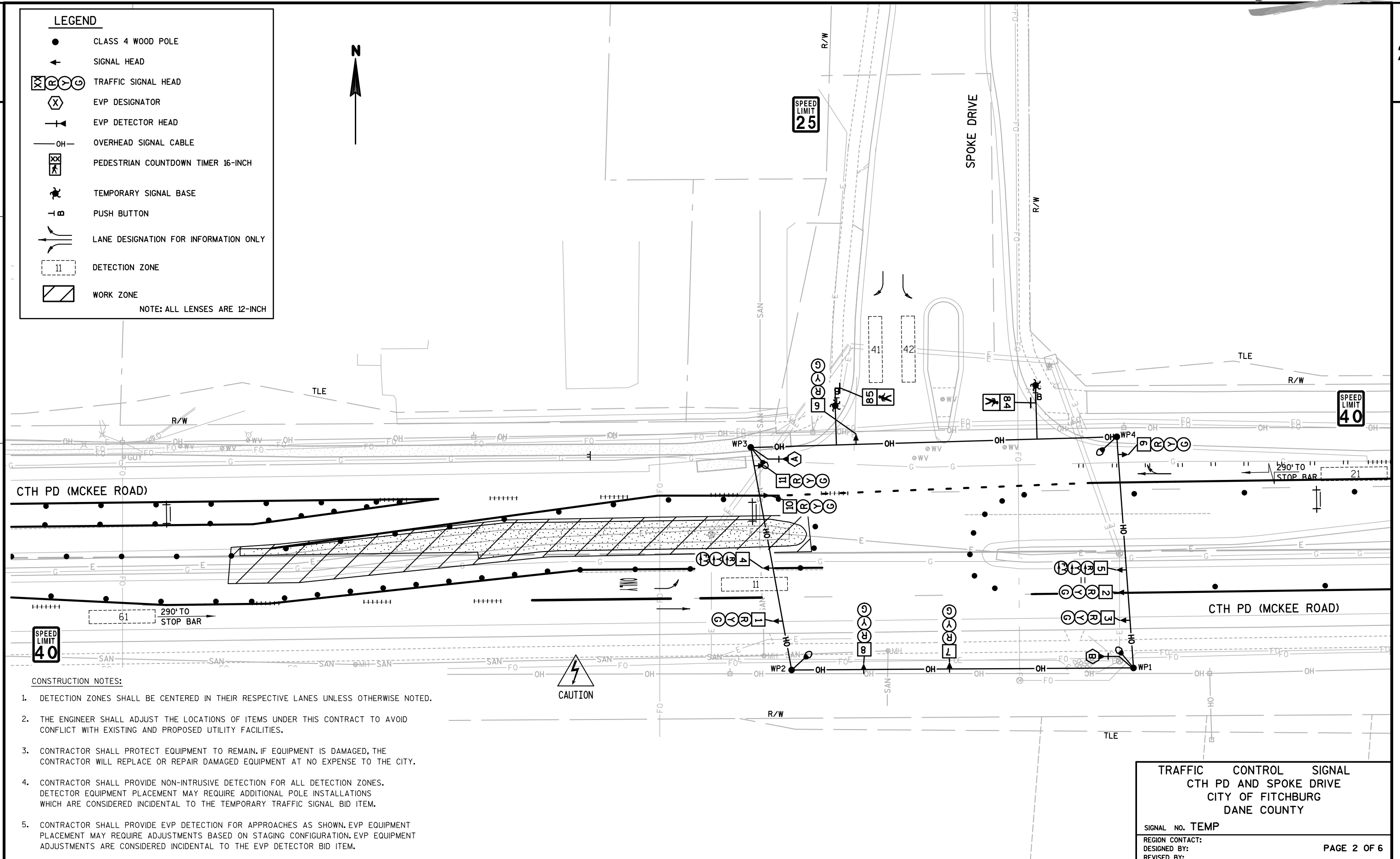
REGION CONTACT:
DESIGNED BY:
REVISED BY:

PAGE 1 OF 6

LEGEND

- CLASS 4 WOOD POLE
- ← SIGNAL HEAD
- ⊗ ⊙ ⊕ ⊖ TRAFFIC SIGNAL HEAD
- ⊗ EVP DESIGNATOR
- ⊖ EVP DETECTOR HEAD
- OH — OVERHEAD SIGNAL CABLE
- ⊗ PEDESTRIAN COUNTDOWN TIMER 16-INCH
- ⊗ TEMPORARY SIGNAL BASE
- ⊖ PUSH BUTTON
- ↔ LANE DESIGNATION FOR INFORMATION ONLY
- ⊗ DETECTION ZONE
- ⊗ WORK ZONE

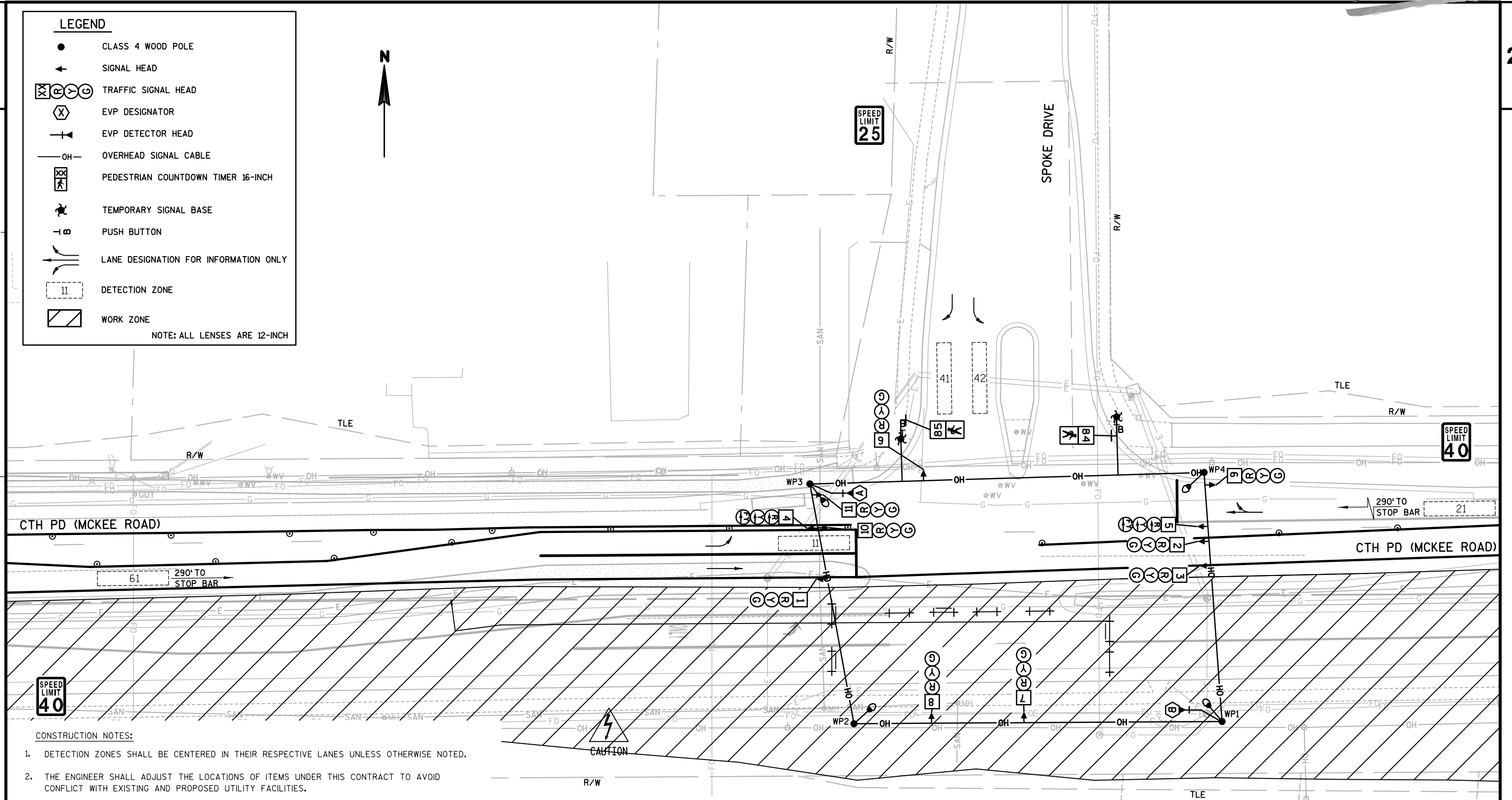
NOTE: ALL LENSES ARE 12-INCH



LEGEND

- CLASS 4 WOOD POLE
- ← SIGNAL HEAD
- ⊗ ⊙ ⊕ ⊖ TRAFFIC SIGNAL HEAD
- ⊗ EVP DESIGNATOR
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TRAFFIC CONTROL SIGNAL
CTH PD AND SPOKE DRIVE
CITY OF FITCHBURG
DANE COUNTY

SIGNAL NO. TEMP

REGION CONTACT:

DESIGNED BY:

REVISED BY:

PAGE 3 OF 6

PROJECT NO: 5849-02-02

HWY: CTH PD

COUNTY: DANE

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3 THRU STAGE 3C

SHEET

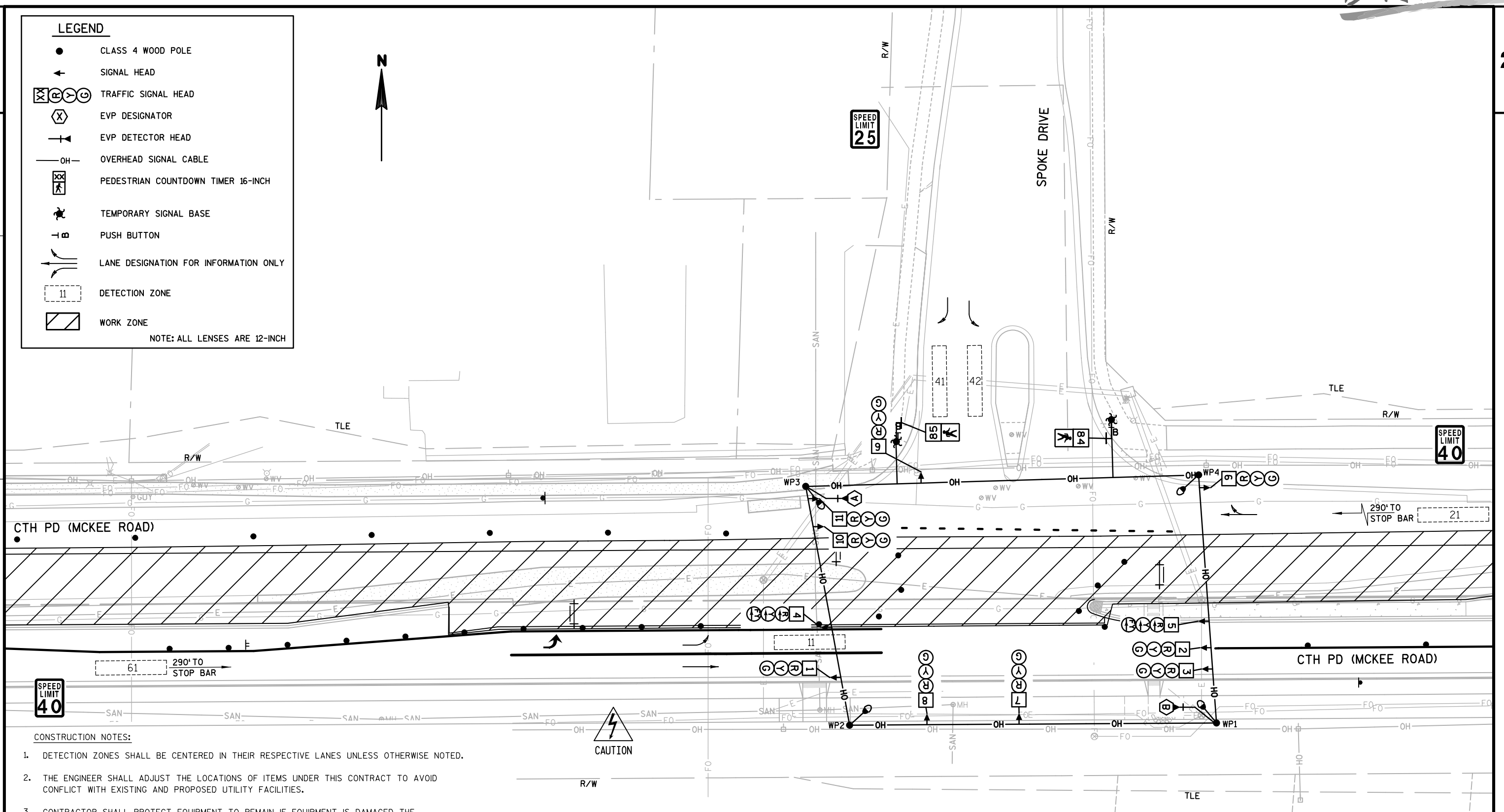
119

E

LEGEND

- CLASS 4 WOOD POLE
- ← SIGNAL HEAD
- ⊗ ⊙ ⊕ TRAFFIC SIGNAL HEAD
- ⊗ EVP DESIGNATOR
- ⊕ EVP DETECTOR HEAD
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- ⊗ TEMPORARY SIGNAL BASE
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TRAFFIC CONTROL SIGNAL
CTH PD AND SPOKE DRIVE
CITY OF FITCHBURG
DANE COUNTY

SIGNAL NO. TEMP

REGION CONTACT:

DESIGNED BY:

REVISED BY:

PAGE 4 OF 6

PROJECT NO: 5849-02-02

HWY: CTH PD

COUNTY: DANE

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 4

SHEET

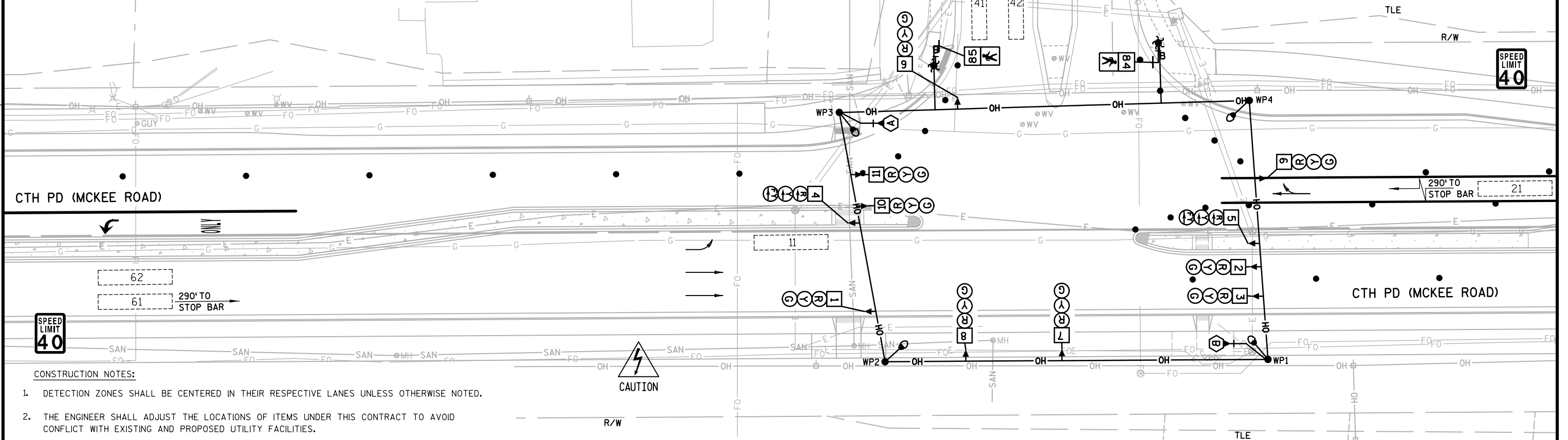
120

E

LEGEND

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- ← SIGNAL HEAD
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TRAFFIC CONTROL SIGNAL
CTH PD AND SPOKE DRIVE
CITY OF FITCHBURG
DANE COUNTY

SIGNAL NO. TEMP

REGION CONTACT:

DESIGNED BY:

REVISED BY:

PAGE 5 OF 6

PROJECT NO: 5849-02-02

HWY: CTH PD

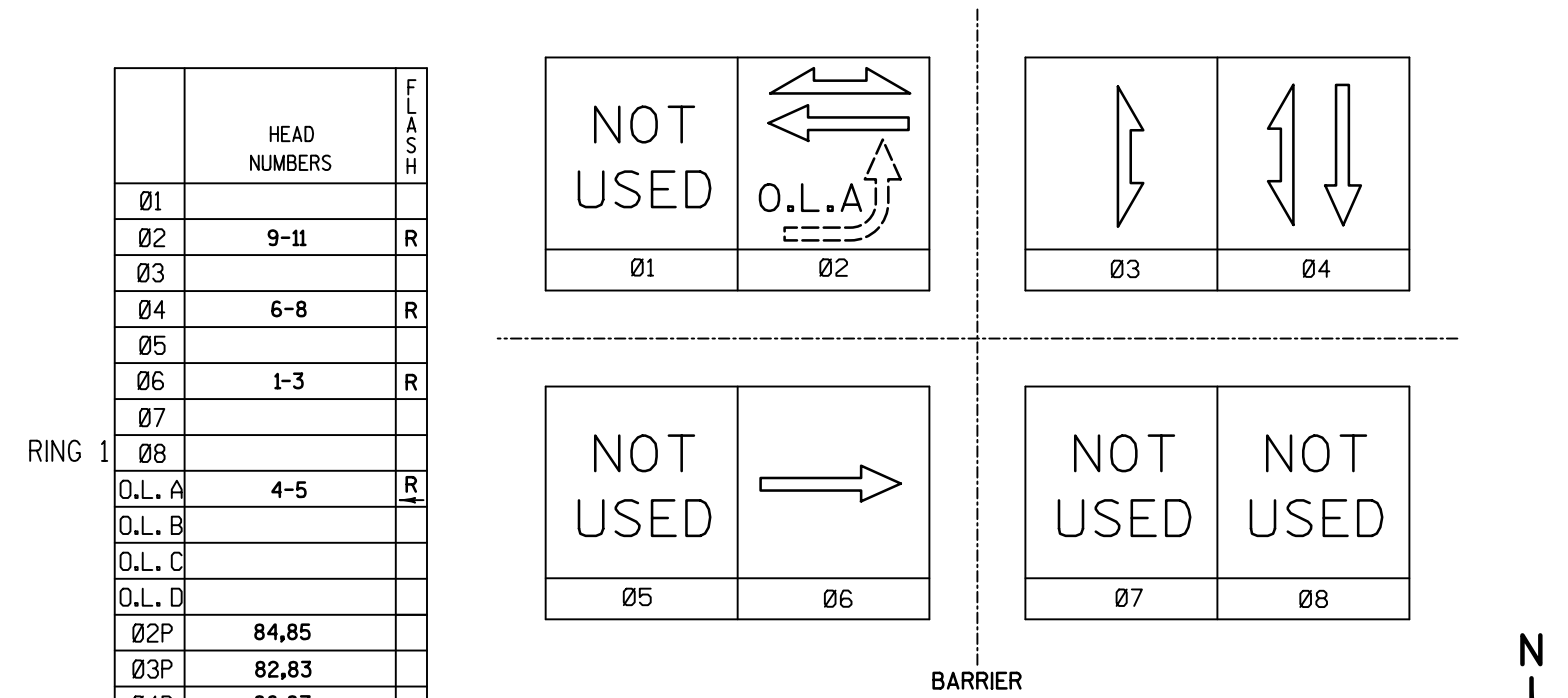
COUNTY: DANE

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5A THRU STAGE 6

SHEET

121

E



	HEAD NUMBERS	FLASH
Ø1		
Ø2	9-11	R
Ø3		
Ø4	6-8	R
Ø5		
Ø6	1-3	R
Ø7		
Ø8		
O.L. A	4-5	R
O.L. B		
O.L. C		
O.L. D		
Ø2P	84,85	
Ø3P	82,83	
Ø4P	86,87	
Ø6P		

CONTROLLER LOGIC				
PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2		6	MIN	X
3				X
4				X
5				
6		2	MIN	X
7				
8				

TYPE OF INTERCONNECT COMMUNICATION	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

OVERLAPS	
O.L. "A" =	NONE
O.L. "B" =	
O.L. "C" =	
O.L. "D" =	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	X
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

SPECIAL OVERLAPS		
	PROTECTED	PERMISSIVE
O.L. "A"		Ø2
O.L. "B"		
O.L. "C"		
O.L. "D"		

DETECTOR LOGIC

DETECTOR INPUT								DETECTOR INPUT							
DETECTOR #(S)								DETECTOR #(S)							
PHASE CALLED								PHASE CALLED							
PHASE EXTENDED								PHASE EXTENDED							
DISCONNECT TIME								DISCONNECT TIME							
CALLING DELAY								CALLING DELAY							
EXTENSION STRETCH								EXTENSION STRETCH							
LOOP FUNCTION								LOOP FUNCTION							
DETECTOR INPUT								DETECTOR INPUT							
DETECTOR #(S)								DETECTOR #(S)							
PHASE CALLED								PHASE CALLED							
PHASE EXTENDED								PHASE EXTENDED							
DISCONNECT TIME								DISCONNECT TIME							
CALLING DELAY								CALLING DELAY							
EXTENSION STRETCH								EXTENSION STRETCH							
LOOP FUNCTION								LOOP FUNCTION							

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE DETECTOR	A	B
MOVEMENT	←	→
PHASE	2	6

AFTER PREEMPTION SEQUENCE 2 OR 6, CONTROLLER SHALL RETURN TO PHASES 2+6.

- GENERAL NOTES:
- 1. SEQUENCE OF OPERATIONS PROVIDED FOR INFORMATION ONLY
 - 2. PHASE 3 ACTIVE FOR STAGE 1 ONLY

CTH PD & SPOKE DRIVE CITY OF FITCHBURG DANE	
SIGNAL NO.	TEMP
CONTROLLER TYPE:Econolite	
DATE	----
PAGE NO. 6 OF 6	

LEGEND

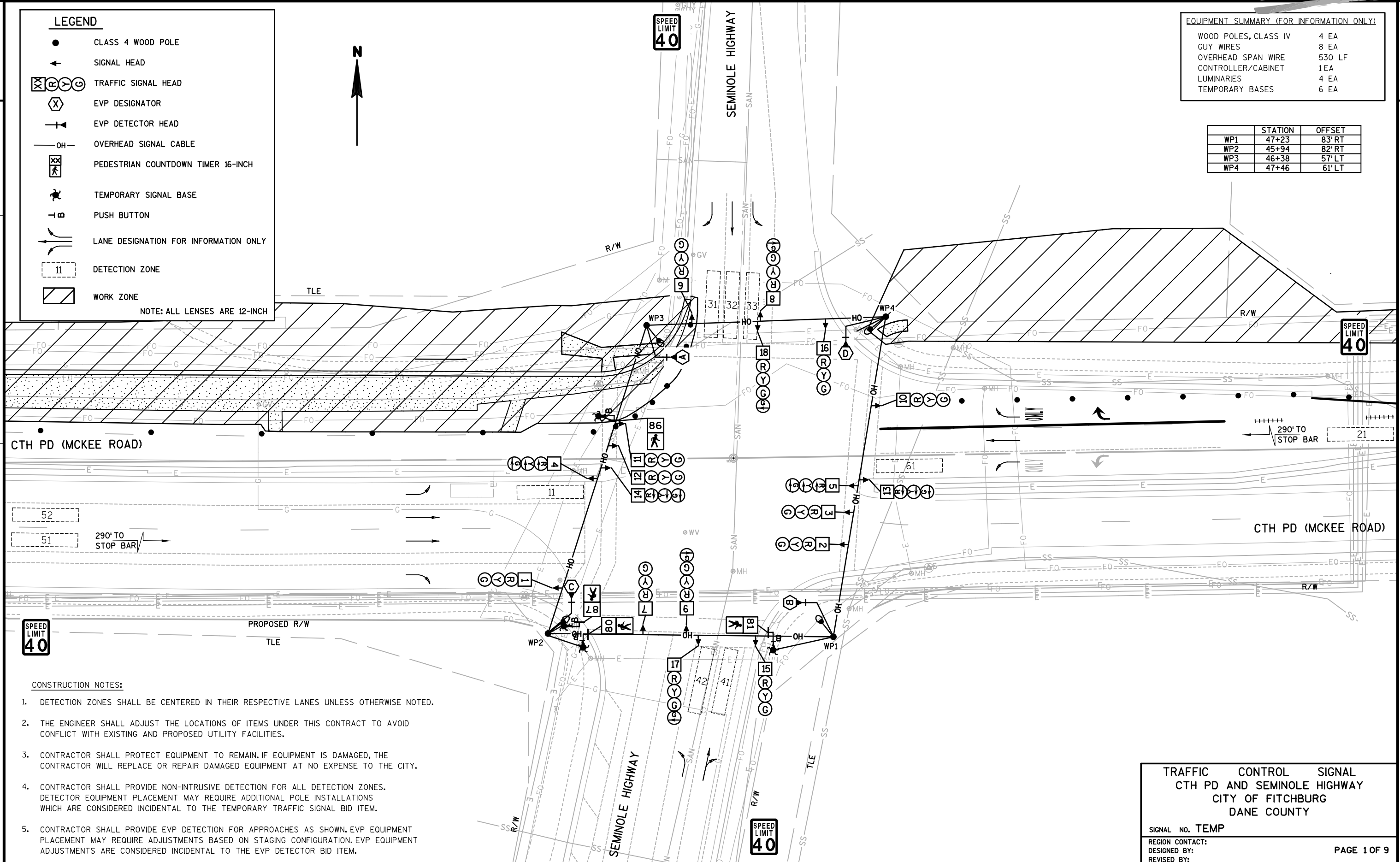
- CLASS 4 WOOD POLE
- ↑ SIGNAL HEAD
- ⊗ ⊙ ⊕ ⊖ TRAFFIC SIGNAL HEAD
- ⊗ EVP DESIGNATOR
- ⊥ EVP DETECTOR HEAD
- OH — OVERHEAD SIGNAL CABLE
- ⊗ PEDESTRIAN COUNTDOWN TIMER 16-INCH
- ⊗ TEMPORARY SIGNAL BASE
- ⊥ B PUSH BUTTON
- ↔ LANE DESIGNATION FOR INFORMATION ONLY
- 11 DETECTION ZONE
- ▨ WORK ZONE

NOTE: ALL LENSES ARE 12-INCH

EQUIPMENT SUMMARY (FOR INFORMATION ONLY)

WOOD POLES, CLASS IV	4 EA
GUY WIRES	8 EA
OVERHEAD SPAN WIRE	530 LF
CONTROLLER/CABINET	1 EA
LUMINARIES	4 EA
TEMPORARY BASES	6 EA

	STATION	OFFSET
WP1	47+23	83' RT
WP2	45+94	82' RT
WP3	46+38	57' LT
WP4	47+46	61' LT



CONSTRUCTION NOTES:

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TRAFFIC CONTROL SIGNAL
CTH PD AND SEMINOLE HIGHWAY
CITY OF FITCHBURG
DANE COUNTY

SIGNAL NO. TEMP

REGION CONTACT:
DESIGNED BY:
REVISED BY:

LEGEND

- CLASS 4 WOOD POLE
- ← SIGNAL HEAD
- ⊗ ⊙ ⊕ TRAFFIC SIGNAL HEAD
- ⊗ EVP DESIGNATOR
- ⊥ EVP DETECTOR HEAD
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NOTE: ALL LENSES ARE 12-INCH



CTH PD (MCKEE ROAD)

CTH PD (MCKEE ROAD)

SEMINOLE HIGHWAY

SPEED
LIMIT
40

SPEED
LIMIT
40

SPEED
LIMIT
40

SPEED
LIMIT
40

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TRAFFIC CONTROL SIGNAL
CTH PD AND SEMINOLE HIGHWAY
CITY OF FITCHBURG
DANE COUNTY

SIGNAL NO. TEMP

REGION CONTACT:
DESIGNED BY:
REVISED BY:

PAGE 2 OF 9

PROJECT NO: 5849-02-02

HWY: CTH PD

COUNTY: DANE

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 2

SHEET

124

E

LEGEND

- CLASS 4 WOOD POLE
- ← SIGNAL HEAD
- ⊗ ⊙ ⊕ TRAFFIC SIGNAL HEAD
- ⊗ EVP DESIGNATOR
- ⊥ EVP DETECTOR HEAD
- OH — OVERHEAD SIGNAL CABLE
- ⊗ PEDESTRIAN COUNTDOWN TIMER 16-INCH
- ⊥ TEMPORARY SIGNAL BASE
- ⊥ B PUSH BUTTON
- ↔ LANE DESIGNATION FOR INFORMATION ONLY
- 11 DETECTION ZONE
- ▨ WORK ZONE

NOTE: ALL LENSES ARE 12-INCH



CTH PD (MCKEE ROAD)

SEMINOLE HIGHWAY

CTH PD (MCKEE ROAD)

SPEED
LIMIT
40

SPEED
LIMIT
40

SPEED
LIMIT
40

SPEED
LIMIT
40

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TRAFFIC CONTROL SIGNAL
CTH PD AND SEMINOLE HIGHWAY
CITY OF FITCHBURG
DANE COUNTY

SIGNAL NO. TEMP

REGION CONTACT:
DESIGNED BY:
REVISED BY:

PAGE 3 OF 9

PROJECT NO: 5849-02-02

HWY: CTH PD

COUNTY: DANE

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3

SHEET

125

E

LEGEND

- CLASS 4 WOOD POLE
- ← SIGNAL HEAD
- ⊗ ⊗ ⊗ ⊗ TRAFFIC SIGNAL HEAD
- ⊗ EVP DESIGNATOR
- ⊥ EVP DETECTOR HEAD
- OH — OVERHEAD SIGNAL CABLE
- ⊗ PEDESTRIAN COUNTDOWN TIMER 16-INCH
- ⊥ TEMPORARY SIGNAL BASE
- ⊥ B PUSH BUTTON
- ↔ LANE DESIGNATION FOR INFORMATION ONLY
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- ▨ WORK ZONE

NOTE: ALL LENSES ARE 12-INCH

CTH PD (MCKEE ROAD)

CTH PD (MCKEE ROAD)

SEMINOLE HIGHWAY

SPEED
LIMIT
40SPEED
LIMIT
40SPEED
LIMIT
40SPEED
LIMIT
40

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TRAFFIC CONTROL SIGNAL
CTH PD AND SEMINOLE HIGHWAY
CITY OF FITCHBURG
DANE COUNTY

SIGNAL NO. TEMP

REGION CONTACT:

DESIGNED BY:

REVISED BY:

PAGE 4 OF 9

PROJECT NO: 5849-02-02

HWY: CTH PD

COUNTY: DANE

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 3B

SHEET

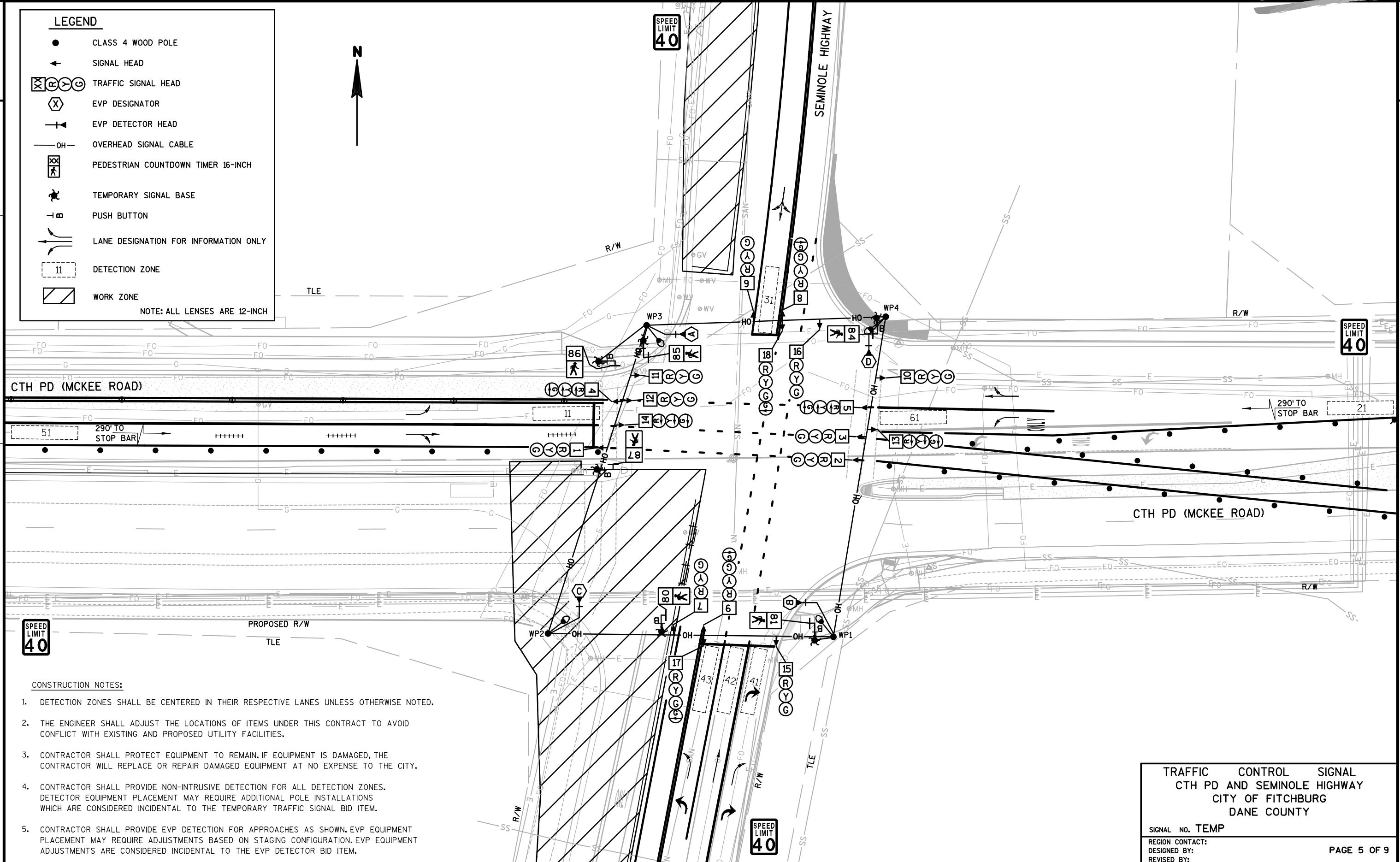
126

E

LEGEND

- CLASS 4 WOOD POLE
- ← SIGNAL HEAD
- ⊗ ⊙ ⊕ TRAFFIC SIGNAL HEAD
- ⊗ EVP DESIGNATOR
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TRAFFIC CONTROL SIGNAL	
CTH PD AND SEMINOLE HIGHWAY	
CITY OF FITCHBURG	
DANE COUNTY	
SIGNAL NO. TEMP	
REGION CONTACT:	
DESIGNED BY:	
REVISED BY:	

LEGEND

- CLASS 4 WOOD POLE
- ← SIGNAL HEAD
- ⊗ ⊙ ⊕ ⊖ TRAFFIC SIGNAL HEAD
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CTH PD (MCKEE ROAD)

CTH PD (MCKEE ROAD)

SPEED LIMIT 40

SPEED LIMIT 40

CONSTRUCTION NOTES:

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TRAFFIC CONTROL SIGNAL
CTH PD AND SEMINOLE HIGHWAY
CITY OF FITCHBURG
DANE COUNTY

SIGNAL NO. TEMP
REGION CONTACT:
DESIGNED BY:
REVISED BY:

LEGEND

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- ← SIGNAL HEAD
- ⊗ ⊙ ⊕ TRAFFIC SIGNAL HEAD
- ⊗ EVP DESIGNATOR
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NOTE: ALL LENSES ARE 12-INCH



CTH PD (MCKEE ROAD)

CTH PD (MCKEE ROAD)

SEMINOLE HIGHWAY

SEMINOLE HIGHWAY

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TRAFFIC CONTROL SIGNAL
CTH PD AND SEMINOLE HIGHWAY
CITY OF FITCHBURG
DANE COUNTY

SIGNAL NO. TEMP

REGION CONTACT:

DESIGNED BY:

REVISED BY:

PAGE 7 OF 9

PROJECT NO: 5849-02-02

HWY: CTH PD

COUNTY: DANE

TEMPORARY TRAFFIC SIGNAL PLAN - STAGE 5 THRU STAGE 5A

SHEET

129

E

LEGEND

CLASS 4 WOOD POLE

SIGNAL HEAD

TRAFFIC SIGNAL HEAD

EVP DESIGNATOR

EVP DETECTOR HEAD

OVERHEAD SIGNAL CABLE

PEDESTRIAN COUNTDOWN TIMER 16-INCH

TEMPORARY SIGNAL BASE

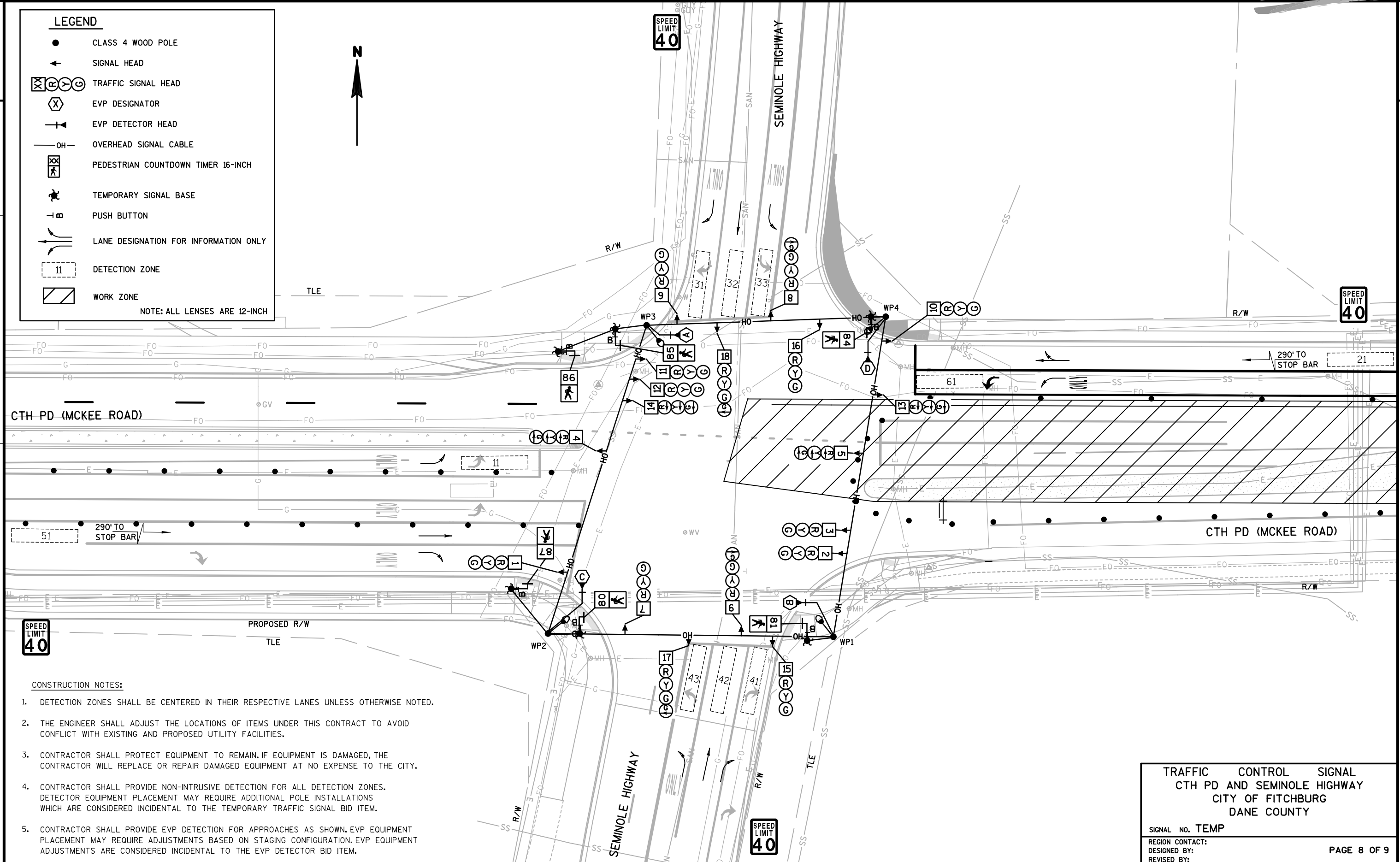
PUSH BUTTON

LANE DESIGNATION FOR INFORMATION ONLY

DETECTION ZONE

WORK ZONE

NOTE: ALL LENSES ARE 12-INCH



- CONSTRUCTION NOTES:
1.

DETECTION ZONES SHALL BE CENTERED IN THEIR RESPECTIVE LANES UNLESS OTHERWISE NOTED.
2.

THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING AND PROPOSED UTILITY FACILITIES.
3.

CONTRACTOR SHALL PROTECT EQUIPMENT TO REMAIN,IF EQUIPMENT IS DAMAGED,THE CONTRACTOR WILL REPLACE OR REPAIR DAMAGED EQUIPMENT AT NO EXPENSE TO THE CITY.
4.

CONTRACTOR SHALL PROVIDE NON-INTRUSIVE DETECTION FOR ALL DETECTION ZONES. DETECTOR EQUIPMENT PLACEMENT MAY REQUIRE ADDITIONAL POLE INSTALLATIONS WHICH ARE CONSIDERED INCIDENTAL TO THE TEMPORARY TRAFFIC SIGNAL BID ITEM.
5.

CONTRACTOR SHALL PROVIDE EVP DETECTION FOR APPROACHES AS SHOWN.EVP EQUIPMENT PLACEMENT MAY REQUIRE ADJUSTMENTS BASED ON STAGING CONFIGURATION.EVP EQUIPMENT ADJUSTMENTS ARE CONSIDERED INCIDENTAL TO THE EVP DETECTOR BID ITEM.

TRAFFIC CONTROL SIGNAL

CTH PD AND SEMINOLE HIGHWAY

CITY OF FITCHBURG

DANE COUNTY

SIGNAL NO. TEMP

REGION CONTACT:

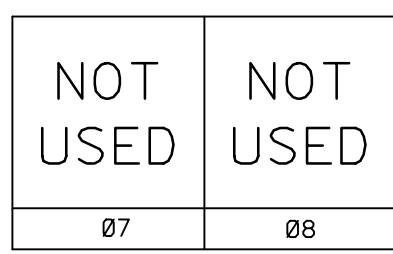
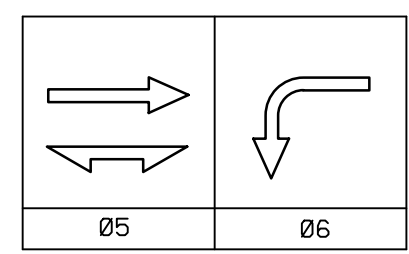
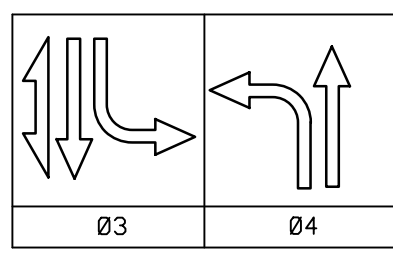
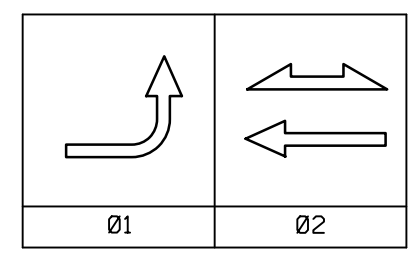
DESIGNED BY:

REVISED BY:

PAGE 8 OF 9

RING 1

	HEAD NUMBERS	FLASH
Ø1	4-5	
Ø2	10-12	R
Ø3	6-9	R
Ø4	15-18	R
Ø5	1-3	
Ø6	13-14	R
Ø7		
Ø8		
O.L. A		
O.L. B		
O.L. C		
O.L. D		
Ø2P	84-85	
Ø3P	86-87	
Ø4P		
Ø5P	80-81	



BARRIER



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				X
2		5	MIN	X
3				X
4				X
5		2	MIN	X
6				X
7				
8				

TYPE OF INTERCONNECT COMMUNICATION	
NONE	X
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

OVERLAPS

O.L. "A" =	NONE
O.L. "B" =	
O.L. "C" =	
O.L. "D" =	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	X
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR *(S)	---	21	---	---	---	---	---	---
PHASE CALLED								
PHASE EXTENDED		2						
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	19	17	23	21	27	25	31	29
DETECTOR *(S)	51	52	---					
PHASE CALLED								
PHASE EXTENDED	5	5						
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR *(S)	11	---	31	32	33	41	42	43
PHASE CALLED	1		3	3	3	4	4	4
PHASE EXTENDED	1		3	3	3	4	4	4
DISCONNECT TIME								
CALLING DELAY			15			15		
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	20	18	24	22	28	26	32	30
DETECTOR *(S)	---	---	61					
PHASE CALLED			6					
PHASE EXTENDED			6					
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE DETECTOR	A	B	C	D
MOVEMENT				
PHASE	6+2	1+5	3	4

AFTER PREEMPTION SEQUENCE 6+2 OR 1+5, CONTROLLER SHALL RETURN TO PHASES 2+5.
AFTER PREEMPTION SEQUENCE 3, CONTROLLER SHALL RETURN TO PHASES 3.
AFTER PREEMPTION SEQUENCE 4, CONTROLLER SHALL RETURN TO PHASES 4.

GENERAL NOTES:

- 1. SEQUENCE OF OPERATIONS PROVIDED FOR INFORMATION ONLY
- 2. PHASE 2 PEDESTRIAN NOT ACTIVE DURING STAGE 1
- 3. PHASE 3 PEDESTRIAN NOT ACTIVE DURING STAGE 4

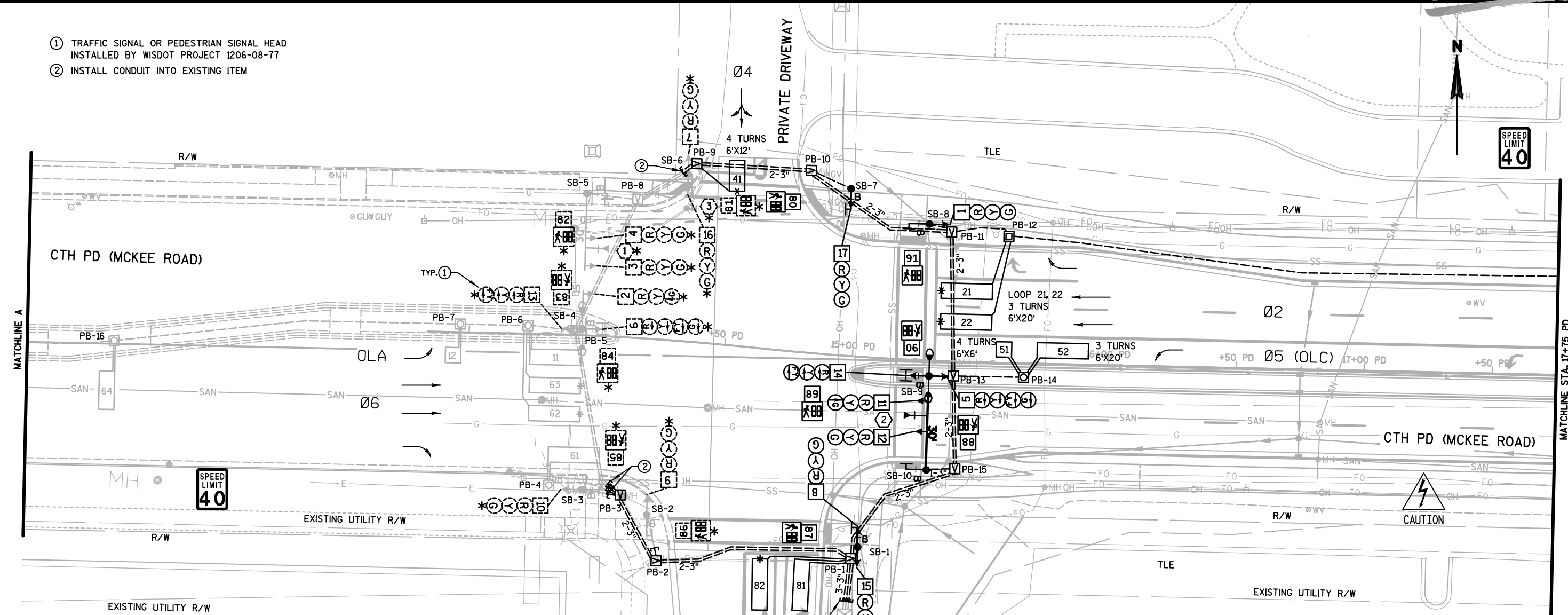
CTH PD & SEMINOLE HIGHWAY CITY OF FITCHBURG DANE	
SIGNAL NO.	TEMP
CONTROLLER TYPE:Econolite	
DATE	----
PAGE NO. 9 OF 9	

DRAFT

2

2

- ① TRAFFIC SIGNAL OR PEDESTRIAN SIGNAL HEAD
INSTALLED BY WISDOT PROJECT 1206-08-77
- ② INSTALL CONDUIT INTO EXISTING ITEM



LEGEND

- | | | | |
|--|--|--|---|
| | PULL BOX TYPE I | | LOOP DETECTOR INSTALLED IN BASE COURSE
WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) |
| | PULL BOX TYPE III | | LOOP DETECTOR PLACED IN CRUSHED
AGGREGATE BASE |
| | PULL BOX TYPE V | | MONOTUBE BASE, POLE (TYPE 9), 15'-30' ARM,
CONCRETE BASE (TYPE 10), 24" BOLT CIRCLE |
| | SIGNAL HEAD, CONCRETE BASE, TYPE G | | SIGNAL HEAD, 11 GA 30' POLE, 16" STEEL
TRANSFORMER BASE CONCRETE BASE
(TYPE LB-3), 11" BOLT CIRCLE, LUMINAIRE AND
8' ARM (120V, LUMINAIRES UTILITY LED-C
CITY OF FITCHBURG) |
| | CONCRETE BASES TYPE P | | PEDESTRIAN HEAD WITH PUSH BUTTON |
| | SIGNAL HEAD NUMBER | | EVP DETECTOR HEAD, EVP DESIGNATOR |
| | RED CIRCULAR INDICATOR | | CONDUIT RIGID NON-METALLIC SCHEDULE 40
2-INCH UNLESS OTHERWISE NOTED |
| | YELLOW CIRCULAR INDICATOR | | CONDUIT LOOP DETECTOR (1" NON-METALLIC) |
| | GREEN CIRCULAR INDICATOR | | |
| | RED ARROW | | |
| | YELLOW ARROW/FLASHING YELLOW ARROW | | |
| | GREEN ARROW | | |
| | LANE DESIGNATION FOR INFORMATION ONLY | | |
| | WALK/DON'T WALK INDICATOR 16"
COUNTDOWN TIMER 16" | | |
- NOTE: GRAYSHADE REPRESENTS EXISTING UNLESS
OTHERWISE NOTED

CONSTRUCTION NOTES:

1. LOCATION OF LOOP DETECTOR IS TO FRONT CENTER OF LOOP, UNLESS OTHERWISE NOTED.
2. LOOPS SHALL BE CENTERED IN THEIR RESPECTIVE LANES UNLESS OTHERWISE NOTED.
3. ALL LOOP DETECTOR WIRES SHALL BE SEALED IMMEDIATELY AFTER INSTALLATION OF NEARBY HANDHOLES/PULL BOXES.
4. ALL LOOP DETECTORS SHALL BE TESTED AS DESCRIBED IN SECTION 655 OF THE STANDARD SPECIFICATIONS.
5. ALL CONDUIT RUNS SHALL CONTAIN PULL WIRE AS DESCRIBED IN THE SPECIAL PROVISIONS AND SECTION 652 OF THE STANDARD SPECIFICATIONS.
6. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
7. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING AND PROPOSED UTILITY FACILITIES.
8. ALL CONDUIT IS SCHEDULE 40 EXCEPT UNDER ROADWAY AND DRIVEWAY ENTRANCES, WHERE SCHEDULE 80 SHALL BE USED.

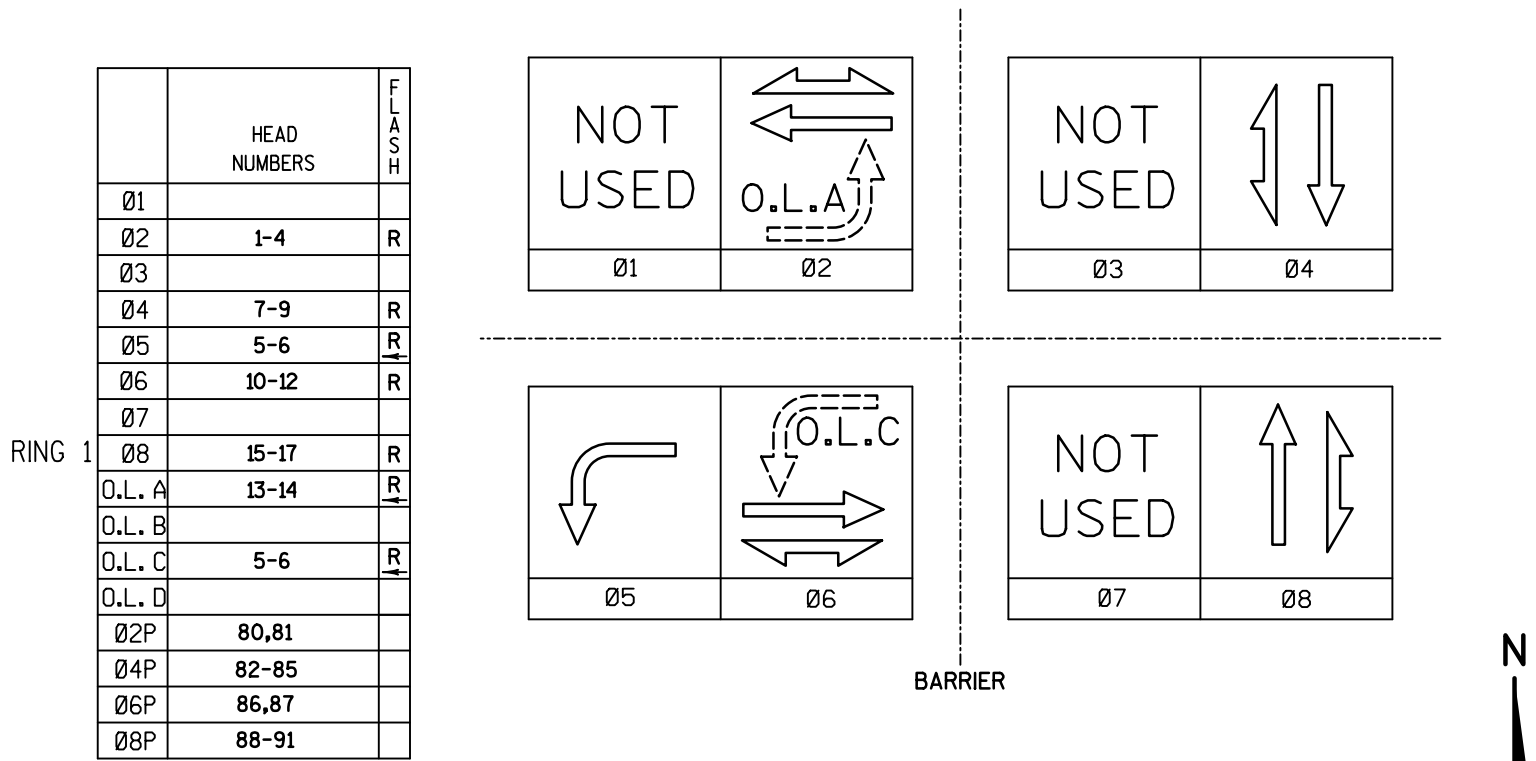
TRAFFIC CONTROL SIGNAL
CTH PD AND COMMERCE PARK DRIVE
CITY OF FITCHBURG
DANE COUNTY

SIGNAL NO. LOCAL

REGION CONTACT:
DESIGNED BY:
REVISED BY:

PAGE 1 OF 4

PLOT SCALE : \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



BARRIER

N

CONTROLLER LOGIC				
PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2		6	MIN	X
3				
4		8		X
5				X
6		2	MIN	X
7				
8		4		X

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	X
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	X
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

OVERLAPS		
O.L. "A" =	NONE	
O.L. "B" =		
O.L. "C" =		
O.L. "D" =		

SPECIAL OVERLAPS		
	PROTECTED	PERMISSIVE
O.L. "A"		Ø2
O.L. "B"		
O.L. "C"	Ø5	Ø6
O.L. "D"		

DETECTOR LOGIC								
DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR *(S)	12	23	24	---	52	64	65	66
PHASE CALLED	2				5			
PHASE EXTENDED	2	2	2		5	6	6	6
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	19	17	23	21	27	25	31	29
DETECTOR *(S)	---	---						
PHASE CALLED								
PHASE EXTENDED								
DISCONNECT TIME								
CALLING DELAY								
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR *(S)	11	21	22	41	51	61	62	63
PHASE CALLED		2	2	4	5	6	6	6
PHASE EXTENDED	2	2	2	4	5	6	6	6
DISCONNECT TIME								
CALLING DELAY				15		15		
EXTENSION STRETCH								
LOOP FUNCTION								

DETECTOR INPUT	20	18	24	22	28	26	32	30
DETECTOR *(S)	81	82						
PHASE CALLED	8	8						
PHASE EXTENDED	8	8						
DISCONNECT TIME								
CALLING DELAY	15							
EXTENSION STRETCH								
LOOP FUNCTION								

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE DETECTOR	1	2	3
MOVEMENT			
PHASE	2+5	6	8

AFTER PREEMPTION SEQUENCE 2+5 OR 6, CONTROLLER SHALL RETURN TO PHASES 2+6.

GENERAL NOTES:

1. SEQUENCE OF OPERATIONS PROVIDED FOR INFORMATION ONLY

CTH PD & COMMERCE PARK CITY OF FITCHBURG DANE	
SIGNAL NO. LOCAL	
CONTROLLER TYPE:Econolite	
DATE ----	PAGE NO. 3 OF 4

CTH PD & COMMERCE PARK DRIVE TRAFFIC SIGNAL CABLING CHART NO. 14 CABLE						
CABLE RUN	CABLE	HEAD NO	MOVEMENT	LENS	CONDUCTOR COLOR	REMARKS
CONTROL CABINET TO SB-1	12/C	8	SB	R	R	Ø 4
				Y	O	
				G	G	
		15	NB	R	R/BLK	Ø 8
				Y	O/BLK	
				G	G/BLK	
CONTROL CABINET TO SB-2	7/C	9	SB	D/WALK	BLK	Ø 4
				WALK	BLU	
				PED BUTTON	W/BLK	
		86	Ø 6 PED	R	R	Ø 4
				Y	O	
				G	G	
CONTROL CABINET TO SB-3	7/C	10	EB	D/WALK	BLK	Ø 6
				WALK	BLU	
				PED BUTTON	W/BLK	
		85	Ø 4 PED	R	R	Ø 6
				Y	O	
				G	G	
CONTROL CABINET TO SB-4	15/C	2	WB	D/WALK	BLK	Ø 2
				WALK	BLU	
				PED BUTTON	W/BLK	
		6	WBL	R	R	Ø 5 & O.L.C
				Y	O	
				↑ G	G	
		13	EBL	← R	R/BLK	Ø 5 & O.L.C
				← Y	O/BLK	
				← FY	BLU/BLK	
		83	Ø 4 PED	← G	G/BLK	O.L.A
				← R	R/W	
				← Y	BLU/W	
CONTROL CABINET TO SB-5	12/C	3	WB	← FY	G/W	Ø 2
				D/WALK	BLK	
				WALK	BLU	
		4	WB	PED BUTTON	W/BLK	Ø 2
				D/WALK	BLK	
				WALK	BLU	
		82	Ø 4 PED	W/BLK	BLK	Ø 2
				WALK	BLU	
				PED BUTTON	W/BLK	
		7	SB	R	R	Ø 4
				Y	O	
				G	G	
CONTROL CABINET TO SB-6	12/C	16	NB	R	R/BLK	Ø 8
				Y	O/BLK	
				G	G/BLK	
		81	Ø 2 PED	D/WALK	BLK	Ø 8
				WALK	BLU	
				PED BUTTON	W/BLK	
		17	NB	R	R	Ø 8
				Y	O	
				G	G	
		80	Ø 2 PED	D/WALK	BLK	Ø 8
				WALK	BLU	
				PED BUTTON	W/BLK	
CONTROL CABINET TO SB-7	7/C	1	WB	R	R	Ø 2
				Y	O	
				G	G	
		91	Ø 8 PED	D/WALK	BLK	Ø 2
				WALK	BLU	
				PED BUTTON	W/BLK	

1. ENSURE THE GROUNDED CONDUCTORS AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
2. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART.
3. USE SEPARATE WHITE CONDUCTOR AS THE GROUNDED CONDUCTOR (NEUTRAL) FOR ALL TRAFFIC SIGNAL INDICATIONS.

BLK = BLACK

W = WHITE

R = RED

G = GREEN

O = ORANGE

BLU = BLUE

CTH PD & COMMERCE PARK DRIVE TRAFFIC SIGNAL CABLING CHART NO. 14 CABLE						
CABLE RUN	CABLE	HEAD NO	MOVEMENT	LENS	CONDUCTOR COLOR	REMARKS
CONTROL CABINET TO SB-9	12/C	5	WBL	← R	R/BLK	Ø5 & O.L.C
				← Y	BLU/BLK	
				← FY	O/BLK	
				← G	G/BLK	
				← R	R	
				← Y	O	
		14	EBL	← FY	G	O.L.A
				D/WALK	BLK	
				WALK	BLU	
				PED BUTTON	W/BLK	
		89	Ø 8 PED	D/WALK	BLK	
				WALK	BLU	
CONTROL CABINET TO SB-10	12/C	90	Ø 8 PED	D/WALK	BLK	Ø 6
				WALK	BLU	
				R	R	
				Y	O	
		11	EB	↑ G	G	
				R	R/BLK	
		12	EB	Y	O/BLK	Ø 6
				G	G/BLK	
				D/WALK	BLK	
				WALK	BLU	
		88	Ø 8 PED	PED BUTTON	W/BLK	

EQUIPMENT GROUNDING CONDUCTOR 10 AWG (GREEN)	
FROM	TO
EXCB-1	SB-1
SB-1	SB-2
SB-2	SB-3
SB-3	SB-4
SB-4	SB-5
SB-5	SB-6
SB-6	SB-7
SB-7	SB-8
SB-8	SB-9
SB-9	SB-10
SB-10	EXCB-1

LIGHTING UF 12 AWG W/ GROUND	
FROM	TO
EXCB-1	SB-4
EXCB-1	SB-9

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
EXCB-1	SB-5 (HEAD 1)
EXCB-1	SB-10 (HEAD 2)
EXCB-1	SB-6 (HEAD 3)

TRAFFIC CONTROL SIGNAL

CTH PD & COMMERCE PARK DRIVE

CITY OF FITCHBURG

DANE COUNTY

SIGNAL NO. LOCAL

DESIGNED BY: STRAND




REVISED BY:

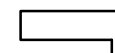
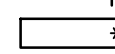
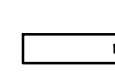
- PLOT SCALE : \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42


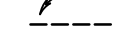
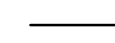
2

2

LEGEND

-  PULL BOX TYPE I
-  PULL BOX TYPE III
-  PULL BOX TYPE V

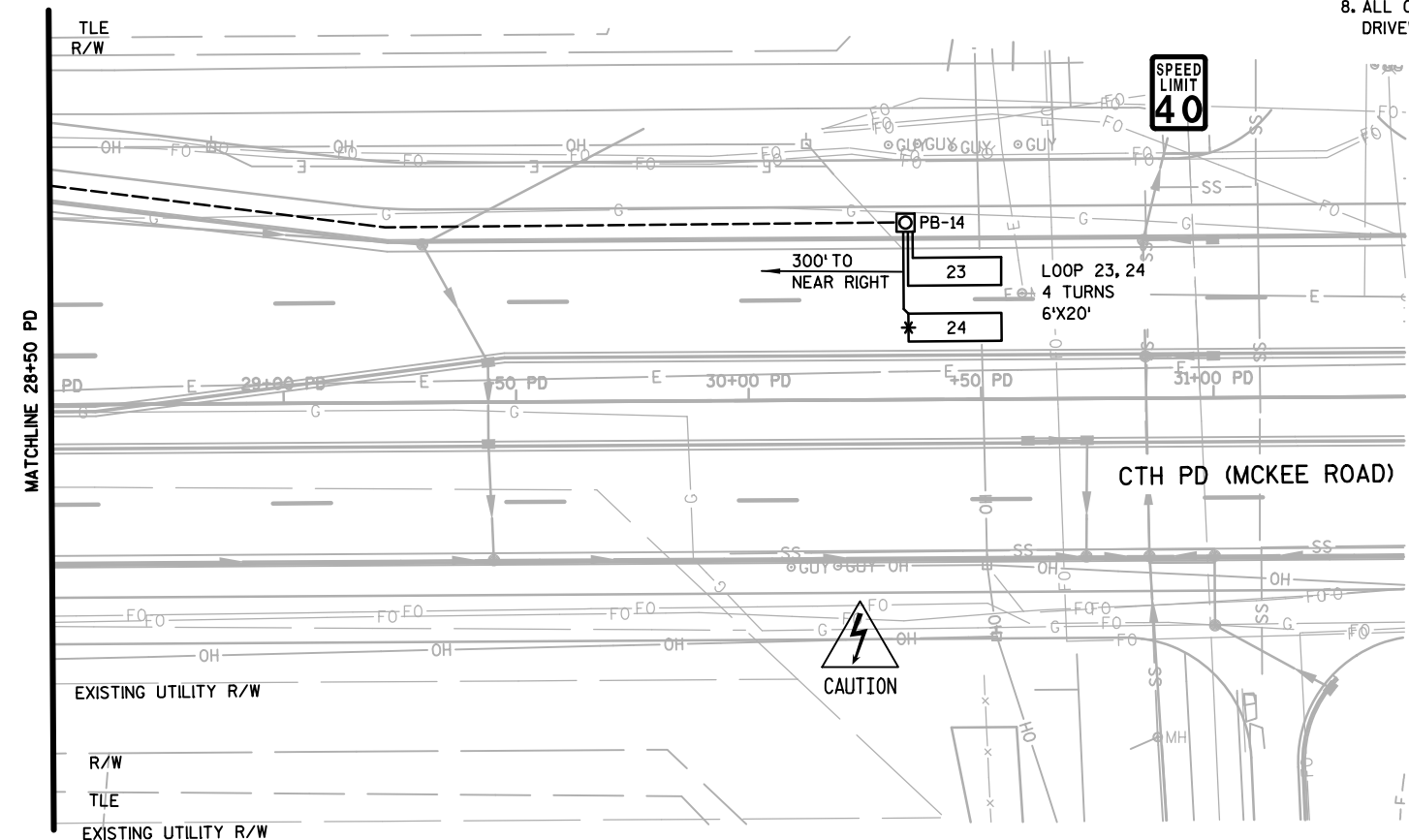
-  LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
-  LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE
-  LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT

-  LANE DESIGNATION FOR INFORMATION ONLY
-  CONDUIT RIGID NON-METALLIC SCHEDULE 40 2-INCH UNLESS OTHERWISE NOTED
-  CONDUIT LOOP DETECTOR (1" NON-METALLIC)

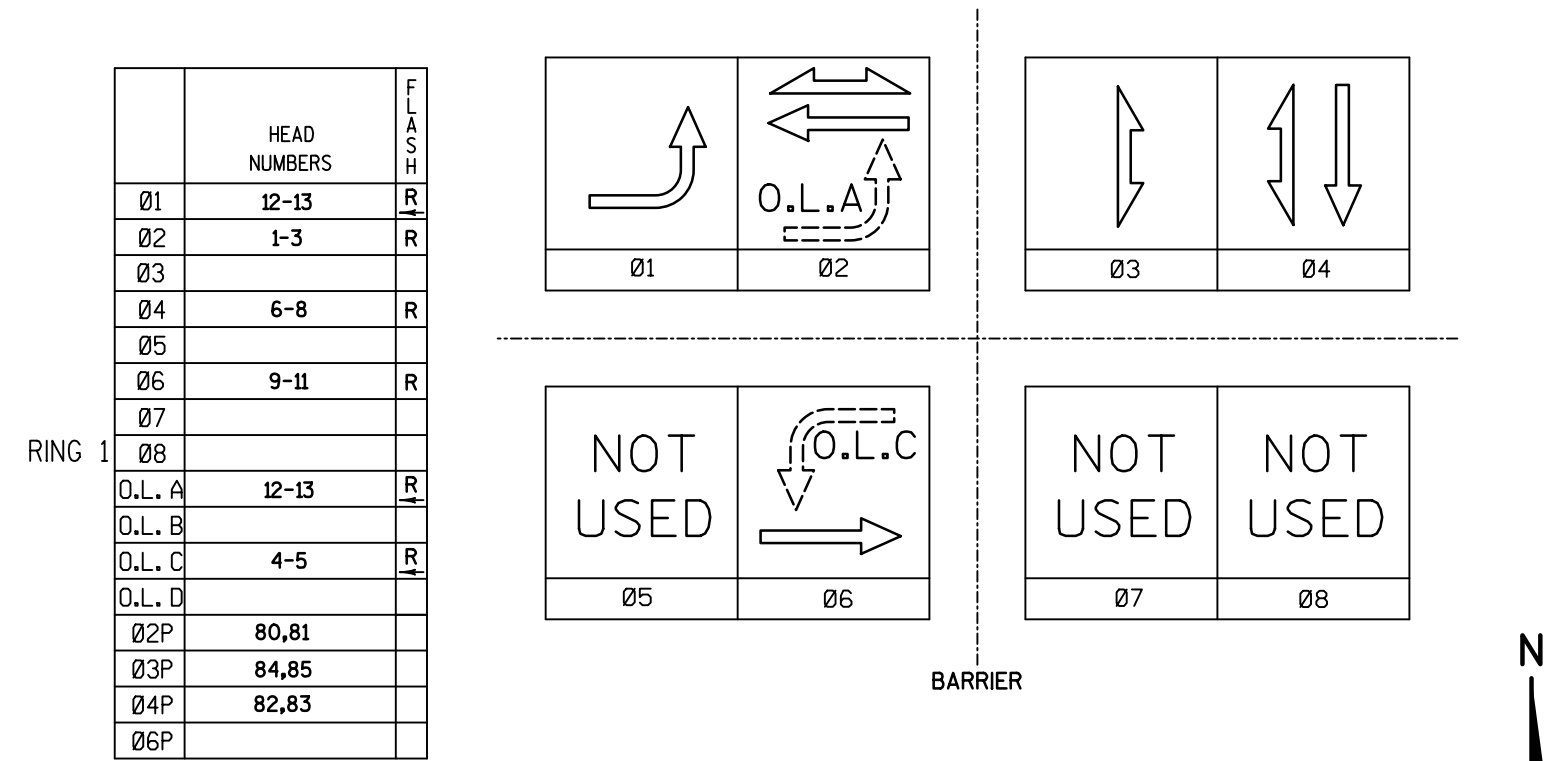
NOTE: GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

CONSTRUCTION NOTES:

1. LOCATION OF LOOP DETECTOR IS TO FRONT CENTER OF LOOP, UNLESS OTHERWISE NOTED.
2. LOOPS SHALL BE CENTERED IN THEIR RESPECTIVE LANES UNLESS OTHERWISE NOTED.
3. ALL LOOP DETECTOR WIRES SHALL BE SEALED IMMEDIATELY AFTER INSTALLATION OF NEARBY HANDHOLES/PULL BOXES.
4. ALL LOOP DETECTORS SHALL BE TESTED AS DESCRIBED IN SECTION 655 OF THE STANDARD SPECIFICATIONS.
5. ALL CONDUIT RUNS SHALL CONTAIN PULL WIRE AS DESCRIBED IN THE SPECIAL PROVISIONS AND SECTION 652 OF THE STANDARD SPECIFICATIONS.
6. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
7. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING AND PROPOSED UTILITY FACILITIES.
8. ALL CONDUIT IS SCHEDULE 40 EXCEPT UNDER ROADWAY AND DRIVEWAY ENTRANCES, WHERE SCHEDULE 80 SHALL BE USED.



TRAFFIC CONTROL SIGNAL	
CTH PD AND SPOKE DRIVE	
CITY OF FITCHBURG	
DANE COUNTY	
SIGNAL NO. LOCAL	
REGION CONTACT:	PAGE 2 OF 4
DESIGNED BY:	
REVISED BY:	



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				X
2		6	MIN	X
3				X
4				X
5				
6		2	MIN	X
7				
8				

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	X
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

OVERLAPS

O.L. "A" =	NONE
O.L. "B" =	
O.L. "C" =	
O.L. "D" =	

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
O.L. "A"	Ø1	Ø2
O.L. "B"		
O.L. "C"		Ø6
O.L. "D"		

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	X
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13		19	17	23	21	27	25	31	29	DETECTOR INPUT
DETECTOR *(S)	12	23	24	---	43	52	63	64										DETECTOR *(S)
PHASE CALLED																		PHASE CALLED
PHASE EXTENDED	1	2	2		4	6	6	6										PHASE EXTENDED
DISCONNECT TIME																		DISCONNECT TIME
CALLING DELAY																		CALLING DELAY
EXTENSION STRETCH																		EXTENSION STRETCH
LOOP FUNCTION																		LOOP FUNCTION

DETECTOR INPUT	4	2	8	6	12	10	16	14		20	18	24	22	28	26	32	30	DETECTOR INPUT
DETECTOR *(S)	11	21	22	41	42	51	61	62										DETECTOR *(S)
PHASE CALLED	1	2	2	4	4	6	6	6										PHASE CALLED
PHASE EXTENDED	1	2	2	4	4	6	6	6										PHASE EXTENDED
DISCONNECT TIME																		DISCONNECT TIME
CALLING DELAY				15														CALLING DELAY
EXTENSION STRETCH																		EXTENSION STRETCH
LOOP FUNCTION																		LOOP FUNCTION

CTH PD & SPOKE DRIVE TRAFFIC SIGNAL CABLING CHART NO. 14 CABLE						
CABLE RUN	CABLE	HEAD NO	MOVEMENT	LENS	CONDUCTOR COLOR	REMARKS
CONTROL CABINET TO EXSB-1	7/C	1	WB	R	R	Ø 2
				Y	O	
				G	G	
		85	Ø 3 PED	D/WALK WALK PED BUTTON	BLK BLU W/BLK	BUTTON
CONTROL CABINET TO SB-2	12/C	4	WBL	← R	R	O.L.C
				← Y	O	
				← FY	G	
				← R	R/BLK	
		13	EBL	← Y	O/BLK	Ø 1& O.L.A
				← FY	BLK/W	
				← G	G/BLK	
				PED BUTTON	W/BLK	BUTTON
CONTROL CABINET TO SB-3	12/C	10	EB	R	R	Ø 6
				Y	O	
				↑ G	G	
		11	EB	R	R/BLK	Ø 6
				Y	O/BLK	
				G	G/BLK	
		84	Ø 3 PED	D/WALK WALK PED BUTTON	BLK BLU W/BLK	BUTTON
CONTROL CABINET TO SB-4	5/C	7	SB	R Y G	R O G	Ø 4
CONTROL CABINET TO SB-5	5/C	8	SB	R Y G	R O G	Ø 4
CONTROL CABINET TO SB-6	7/C	9	EB	R Y G	R O G	Ø 6
				D/WALK WALK PED BUTTON	BLK BLU W/BLK	
		83	Ø 4 PED	← R ← Y ← FY	R O G	O.L.C
				← R ← Y ← FY	R/BLK O/BLK BLK/W	
CONTROL CABINET TO SB-7	12/C	5	WBL	← R ← Y ← FY	R O G	O.L.C
				← R ← Y ← FY	R/BLK O/BLK BLK/W	Ø 1& O.L.A
				← R ← Y ← FY	R/BLK O/BLK BLK/W	
				← R ← Y ← FY	R/BLK O/BLK BLK/W	
		12	EBL	← R ← Y ← FY	R/BLK O/BLK BLK/W	Ø 1& O.L.A
				← R ← Y ← FY	R/BLK O/BLK BLK/W	
				← R ← Y ← FY	R/BLK O/BLK BLK/W	
				← R ← Y ← FY	R/BLK O/BLK BLK/W	
CONTROL CABINET TO SB-8	12/C	2	WB	R Y ↑ G	R O G	Ø 2
				R Y G	R/BLK O/BLK G/BLK	Ø 2
				D/WALK WALK PED BUTTON	BLK BLU W/BLK	BUTTON
		3	WB	R Y G	R/BLK O/BLK G/BLK	Ø 2
				R Y G	R/BLK O/BLK G/BLK	
				D/WALK WALK PED BUTTON	BLK BLU W/BLK	
		82	Ø 4 PED	D/WALK WALK PED BUTTON	BLK BLU W/BLK	BUTTON
				D/WALK WALK PED BUTTON	BLK BLU W/BLK	

1. ENSURE THE GROUNDED CONDUCTORS AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
2. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART.
3. USE SEPARATE WHITE CONDUCTOR AS THE GROUNDED CONDUCTOR (NEUTRAL) FOR ALL TRAFFIC SIGNAL INDICATIONS.

BLK = BLACK

W = WHITE

R = RED

G = GREEN

O = ORANGE

BLU = BLUE

CTH PD & SPOKE DRIVE TRAFFIC SIGNAL CABLING CHART NO. 14 CABLE						
CABLE RUN	CABLE	HEAD NO	MOVEMENT	LENS	CONDUCTOR COLOR	REMARKS
CONTROL CABINET TO EXSB-9	7/C	6	SB	R	R	Ø 4
				Y	O	
				G	G	
		81	Ø 2 PED	D/WALK WALK PED BUTTON	BLK BLU W/BLK	BUTTON
CONTROL CABINET TO EXSB-10	7/C	80	Ø 2 PED	D/WALK WALK PED BUTTON	BLK BLU W/BLK	BUTTON

EQUIPMENT GROUNDING CONDUCTOR 10 AWG (GREEN)	
FROM	TO
EXCB-1	EXSB-1
EXSB-1	SB-2
SB-2	SB-3
SB-3	SB-4
SB-4	SB-5
SB-5	SB-6
SB-6	SB-7
SB-7	SB-8
SB-8	EXSB-9
EXSB-9	EXSB-10
EXSB-10	EXCB-1

LIGHTING UF 12 AWG W/ GROUND	
FROM	TO
EXCB-1	EXSB-9
EXSB-9	SB-7
EXCB-1	EXSB-10
EXSB-10	SB-2

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
EXCB-1	SB-8 (HEAD 1)
EXCB-1	SB-3 (HEAD 2)

TRAFFIC CONTROL SIGNAL

CTH PD & SPOKE DRIVE

CITY OF FITCHBURG

DANE COUNTY

SIGNAL NO. LOCAL

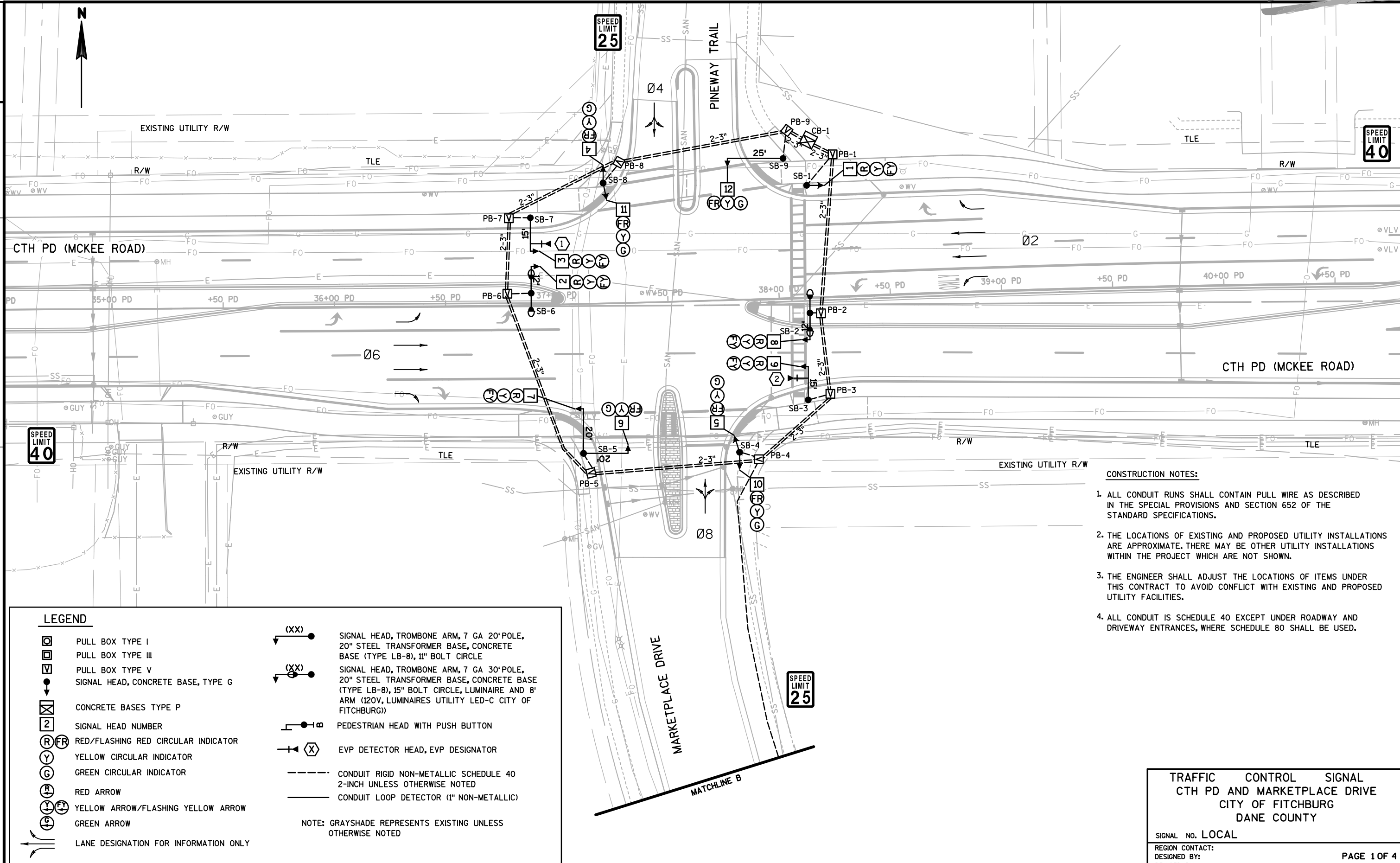
DESIGNED BY: STRAND

REVISED BY:

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2

LEGEND

- | | |
|---|---------------------|
|  | PULL BOX TYPE I |
|  | PULL BOX TYPE III |
|  | PULL BOX TYPE V |
|  | CONFIRMATION BEACON |



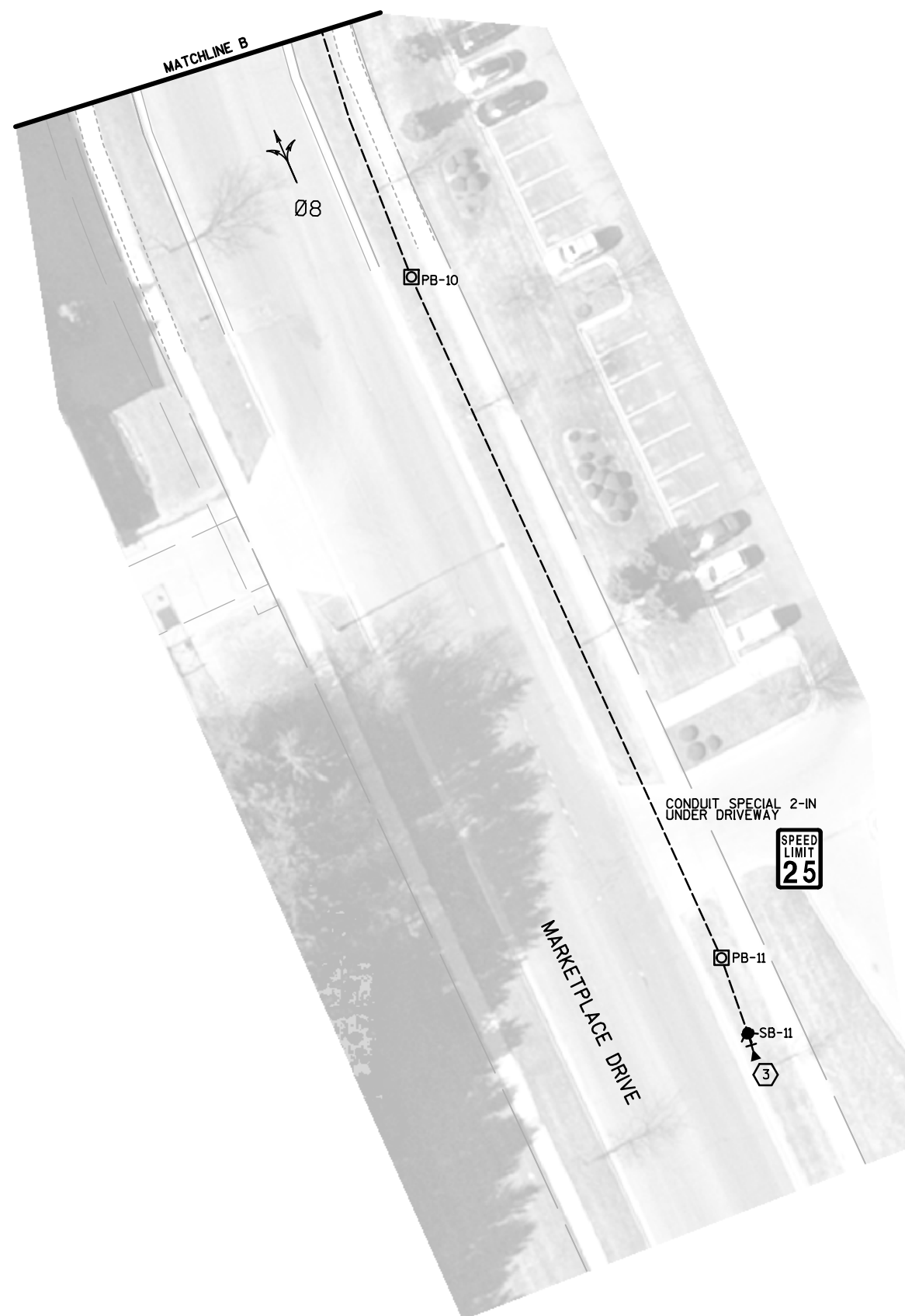
LANE DESIGNATION FOR INFORMATION ONLY

----- CONDUIT RIGID NON-METALLIC SCHEDULE 40
2-INCH UNLESS OTHERWISE NOTED

———— CONDUIT LOOP DETECTOR (1" NON-METALLIC)

NOTE: GRAYSHADE REPRESENTS EXISTING UNLESS OTHERWISE NOTED

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CONSTRUCTION NOTES:

1. ALL CONDUIT RUNS SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR CONDUIT AS DESCRIBED IN THE SPECIAL PROVISIONS AND SECTION 652 OF THE STANDARD SPECIFICATIONS.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING AND PROPOSED UTILITY FACILITIES.
4. ALL CONDUIT IS SCHEDULE 40 EXCEPT UNDER ROADWAY AND DRIVEWAY ENTRANCES, WHERE SCHEDULE 80 SHALL BE USED.

TRAFFIC CONTROL SIGNAL
CTH PD AND MARKETPLACE DRIVE
CITY OF FITCHBURG
DANE COUNTY

SIGNAL NO. LOCAL

REGION CONTACT:

DESIGNED BY:

REVISÉD BY:

PAGE 2 OF 4

PROJECT NO: 5849-02-02

HWY: CTH PD

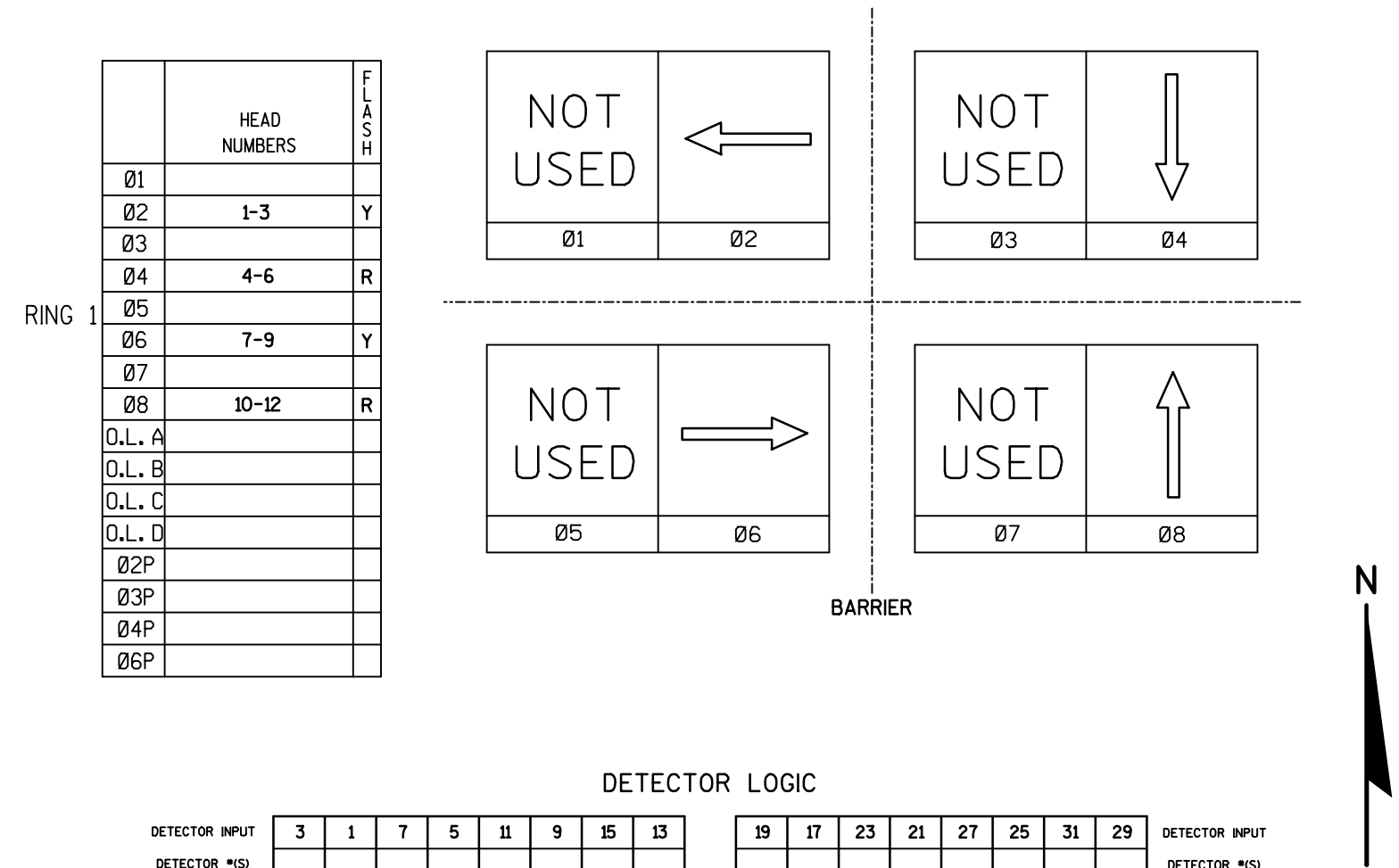
COUNTY: DANE

TRAFFIC SIGNAL PLAN - MARKETPLACE DRIVE

SHEET

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E



	HEAD NUMBERS	FLASH
Ø1		
Ø2	1-3	Y
Ø3		
Ø4	4-6	R
Ø5		
Ø6	7-9	Y
Ø7		
Ø8	10-12	R
O.L. A		
O.L. B		
O.L. C		
O.L. D		
Ø2P		
Ø3P		
Ø4P		
Ø6P		

CONTROLLER LOGIC				
PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2		6		X
3				
4		8		X
5				
6		2		X
7				
8		4		X

TYPE OF INTERCONNECT COMMUNICATION	
NONE	
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	X
RADIO	
*LOCATION OF MASTER CONTROLLER NO:	
SIGNAL SYSTEM #:	SS- -

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	X
IN SEPARATE DOT LIGHTING CABINET	

OVERLAPS	
O.L. "A" =	NONE
O.L. "B" =	
O.L. "C" =	
O.L. "D" =	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	X
GTT	
TOMAR	X
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

SPECIAL OVERLAPS		
	PROTECTED	PERMISSIVE
O.L. "A"		
O.L. "B"		
O.L. "C"		
O.L. "D"		

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
DETECTOR INPUT	19	17	23	21	27	25	31	29
DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR INPUT	20	18	24	22	28	26	32	30

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE DETECTOR	1	2	3
MOVEMENT	←	→	↑
PHASE	2	6	8

AFTER PREEMPTION SEQUENCE 2 OR 6, CONTROLLER SHALL RETURN TO PHASES 2+6.

GENERAL NOTES:
1. SEQUENCE OF OPERATIONS PROVIDED FOR INFORMATION ONLY

CTH PD & MARKETPLACE DRIVE CITY OF FITCHBURG DANE	
SIGNAL NO. LOCAL	
CONTROLLER TYPE:Econolite	
DATE ----	PAGE NO. 3 OF 4

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CTH PD AND MARKETPLACE DRIVE INTERSECTION TRAFFIC SIGNAL CABLING CHART NO. 14 CABLE						
CABLE RUN	CABLE	HEAD NO.	MOVEMENT	LENS	CONDUCTOR COLOR	REMARKS
CONTROL CABINET TO SB-1	5/C	1	WBT	R	R	Ø2
				Y	O	
				FY	G	
CONTROL CABINET TO SB-2	5/C	8	EBT	R	R	Ø6
				Y	O	
				FY	G	
CONTROL CABINET TO SB-3	5/C	9	EBT	R	R	Ø6
				Y	O	
				FY	G	
CONTROL CABINET TO SB-4	12/C	5	SBT	FR	R	Ø4
				Y	O	
				G	G	
		10	NBT	FR	R/BLK	Ø8
				Y	O/BLK	
				G	G/BLK	
CONTROL CABINET TO SB-5	12/C	6	SBT	FR	R	Ø4
				Y	O	
				G	G	
		7	EBT	R	R/BLK	Ø6
				Y	O/BLK	
				FY	G/BLK	
CONTROL CABINET TO SB-6	5/C	2	WBT	R	R	Ø2
				Y	O	
				FY	G	
CONTROL CABINET TO SB-7	5/C	3	WBT	R	R	Ø2
				Y	O	
				FY	G	
CONTROL CABINET TO SB-8	12/C	4	SBT	FR	R	Ø4
				Y	O	
				G	G	
		11	NBT	FR	R/BLK	Ø8
				Y	O/BLK	
				G	G/BLK	
CONTROL CABINET TO SB-9	5/C	12	NBT	FR	R	Ø8
				Y	O	
				G	G	

EQUIPMENT GROUNDING CONDUCTOR 10 AWG (GREEN)	
FROM	TO
CB-1	SB-1
SB-1	SB-2
SB-2	SB-3
SB-3	SB-4
SB-4	SB-5
SB-5	SB-6
SB-6	SB-7
SB-7	SB-8
SB-8	SB-9
SB-9	SB-10
SB-10	CB-1

LIGHTING UF 12 AWG W/ GROUND	
FROM	TO
CB-1	SB-2
CB-1	SB-7

EMERGENCY VEHICLE PREEMPTION	
FROM	TO
CB-1	SB-8 (HEAD 1)
CB-1	SB-3 (HEAD 2)
CB-1	SB-11 (HEAD 3)

1. ENSURE THE GROUNDED CONDUCTORS AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
2. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART.
3. USE SEPARATE WHITE CONDUCTOR AS THE GROUNDED CONDUCTOR (NEUTRAL) FOR ALL TRAFFIC SIGNAL INDICATIONS.

BLK = BLACK
W = WHITE
R = RED
G = GREEN
O = ORANGE
BLU = BLUE

TRAFFIC CONTROL SIGNAL

CTH PD & MARKETPLACE DRIVE

CITY OF FITCHBURG

DANE COUNTY

SIGNAL NO. LOCAL

DESIGNED BY: STRAND

REVISED BY:

PAGE 4 OF 4

